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The **CHEMIST AND DRUGGIST**

For Retailer, Wholesaler and Manufacturer

JANUARY 31 1953

DRUG EXTRACTS

Stafford Allen & Sons offer the longest experience in the preparation of fine medicinal extracts. Our high vacuum concentration process ensures full therapeutic activity. We manufacture liquid, granulated, powdered and standardized extracts; also concentrated extracts for the preparation of tinctures, infusions, liquid extracts, decoctions, confections, etc., etc.

May we quote you for your requirements?

STAFFORD ALLEN & SONS LIMITED

25, MARK LANE, LONDON, E.C.3.

Telephone: CLERKENWELL 1000



Stafford Allen & Sons

TAS/AL 437

BARTLETT'S Super Value *Protector* BRAND Sun Glasses for Coronation Year



In the new 'Protector' Brand Sun Glasses, Bartletts offer keener value and a wider choice than ever before.

Over 150 of the latest styles in

plastic, metal and jewelled frames at prices from 6d. to 3gns.

British, French and Italian sun glasses and Clipovers with Crookes lenses—Adults, Teenage and Children's sizes in a wide variety of colours.

Write or phone for your copy of the new Bartlett Coronation Year Brochure.

ORDER FROM YOUR USUAL WHOLESALER

4 FEATURES FROM THE NEW RANGE

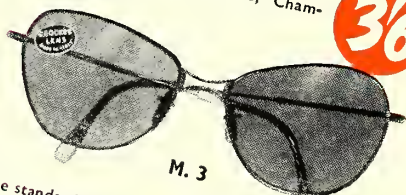


P. 19

The very latest style Sun Glass with heavily engraved front and branch. Specially chosen for Coronation Year. Crookes Lenses and pin-hinges. Colours: Crystal rose, Blue, Champagne or Clear

RETAIL PRICE

3/6



M. 3

The standard series, metal frame, pilot-type. Crookes Lenses. Choice of 5 patterns in Gilt or Nickel Plated finish. Screw joints plastic adjustable nose pads, plastic earpieces and sweat bar.

RETAIL PRICE

7/6

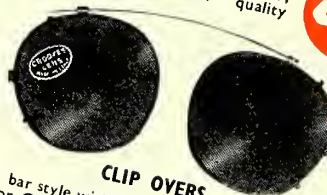


J. 1

Ultra-smart jewelled Sun Glass with Crookes Lenses. Transparent pastel shades of Crystal Rose, Champagne, Blue and Clear—also Shell colour, Decorated with normal quality rhinestones.

RETAIL PRICE

4/6



CLIP OVERS

Sliding bar style with Crookes Lenses Panto or Quadra shape

RETAIL PRICE

**3/9
NICKEL
4/9
GILT**

**All Wholesale enquiries
to this address please**

ALFRED FRANKS & BARTLETT CO. LTD

226/8, GRAYS INN ROAD, LONDON, W.C.1.

Telephone: TERminus 9865/8

GIBBS ARE BACK IN SHAVING!

Introducing

Gibbs

with **SKIN PROTECTING HC.7.**
LATHER SHAVING CREAM

containing **HC.7**
to give **LASTING**
SKIN PROTECTION

After many years absence from the shaving market, Gibbs introduce a new Lather Shaving Cream containing HC.7. This is the first important advance in shaving preparations for years — so be ready for the big demand.

WHAT IS HC.7? Answer: di-Hydroxy hexa-Chloro-diphenyl methane. This is an entirely new bactericide with a *sustained* action. The skin actually *ABSORBS* it, so that the germicidal protection is continuous.

The inclusion of HC.7 in Gibbs Shaving Cream gives completely effective germicidal protection while shaving — when the skin is most vulnerable to infection. *IN ADDITION, this protection lasts from one shave to the next.*

Regular use of Gibbs Shaving Cream containing HC.7 benefits the skin, brings a healthier complexion, makes shaving more comfortable, helps to prevent pimples, minor skin infections.

FULL-SCALE ADVERTISING STARTING SOON!

"TIPS" A NEW TYPE OF CINEMA ADVERTISING

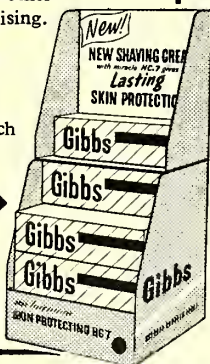
Soon 1,400 cinemas throughout the country will be showing "Tips" — the new magazine type of cinema advertising *shown as a normal feature film*. No other shaving preparation is using this kind of advertising.

LARGE ADVERTISEMENTS IN NATIONAL NEWSPAPERS

No other shaving preparation has ever used such large spaces before! Gibbs mean business!

DISPLAY HELP FOR YOU →

To assist you in winning quick sales —
all deliveries in 1953 will be made
in these striking display outers



EXTRA PROFITS

★ SPECIAL DISPLAY OFFER!

In addition to the usual margin,
Gibbs are making a

**SPECIAL DISPLAY BONUS OF
12 tubes for the price of 11**

RETAIL PRICE 2/6 A TUBE

*They'll soon be
asking for* **Gibbs**
LATHER SHAVING CREAM

Disprin overcomes the defects of both aspirin and calcium aspirin

The defects of aspirin are its acidity and low solubility. The defect of calcium aspirin, as generally prepared, is its liability to chemical breakdown and consequent contamination. By providing pure calcium aspirin in stable, soluble, palatable tablet form, 'Disprin' overcomes the defects of both aspirin and calcium aspirin, and combines the advantages of both.

Aspirin dosage can now be administered for its analgesic, antipyretic and anti-rheumatic effects in a complete solution which is both palatable and bland. Extensive clinical trials carried out in leading hospitals show that, even in large amounts given over prolonged periods, Disprin is unlikely to cause gastric or systemic disturbances, except in cases of extreme hypersensitivity.

Thus an obstinate and long-standing problem in aspirin therapy has been solved.

DISPRIN^{REGD.}

Provides stable, soluble, palatable, calcium aspirin

In all conditions which call for up-to-date aspirin therapy, Disprin may be advised and recommended.

50 tablet bottle 3/4; 26 tablet bottle 2/-; flat pocket folders 8 tablets 9d. (all including Purchase Tax)



Best Ever!

A gratifying and popular verdict on the current advertising !

And now new guns are brought to bear in the form of weekly programmes from

Radio Luxembourg

continuing right through to the end of April.

Book your window displays and show material and

Order Now

Bonus in kind can only be allowed when one or more of the standard parcels E, F, G, J, L and P are ordered. Apart from the bonus parcels, other quantities of Crookes Halibut Oil and Capsules and Halibut Oil Emulsion can always be supplied at normal discount. Orders over £2 nett, carriage paid.

Standard Bonus Parcels			
PARCEL	39 x 25 Capsules @ 2/6 Retail		
E	Total retail value	£4	17 6
	Cost of parcel	£3	0 9
PARCEL	26 x 5 m.l. Drops @ 2/- Retail		
F	Total retail value	£2	12 0
	Cost of parcel	£1	12 5
PARCEL	13 x 15 m.l. Drops @ 5/- Retail		
G	Total retail value	£3	5 0
	Cost of parcel	£2	0 6
PARCEL	13 x 30 m.l. Drops @ 9/- Retail		
J	Total retail value	£5	17 0
	Cost of parcel	£3	12 11
PARCEL	13 x 100 Capsules @ 8/6 Retail		
L	Total retail value	£5	10 6
	Cost of parcel	£3	8 10
PARCEL	13 x 15 m.l. Infants' Emulsion @ 3/6 Retail		
P	Total retail value	£2	5 6
	Cost of parcel	£1	8 4



SOLE AGENTS **P.A.T.A.**

CROOKES HALIBUT OIL

THE CROOKES LABORATORIES LIMITED . PARK ROYAL . LONDON N.W.10



Presta
TANGERINE SQUASH

*it's new!...
it's deliciously different!*

It's NEW... It's NEWS!
... the first ever
Tangerine
Squash

Everyone loves the sweet, unmistakable flavour of this succulent, sun-kissed fruit, but never before has it been obtainable as a squash. NOW—at last—as a deliciously different NEW squash by PRESTA, it's just the juice to be the Sales Sensation of the Season! Introduced only a few weeks ago, demand for this new Tangerine Squash is exceeding all expectations, so see that your orders are in early and profit from the demand for this news-making flavour.

**Special Introductory
Display Bonus Offer!**

AVAILABLE ONLY UNTIL MARCH 14th 1953

To make doubly sure that you'll find this line doubly profitable, Apollinaris are making a special introductory offer of

12 BOTTLES FOR THE PRICE OF 11

This offer holds good only until March 14th 1953—so don't delay! Place your orders now!

RETAIL SELLING PRICE 3/- a bottle

The Apollinaris Co. Ltd., Mason's Avenue, Harrow, Middx.
Telephone: Harrow 4353

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From the Carnegie Range of Fine Chemicals

SANTONIN

CARNEGIE CHEMICALS (WELWYN) LTD

WELWYN GARDEN CITY : HERTFORDSHIRE : ENGLAND

Telegrams : CARNECHEM, WELWYN GARDEN

Telephone : WELWYN GARDEN 506 (4 lines)

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Q.A.

REGD.

QUICK ACTING

ASPIRIN TABLETS

- PHARMACISTS ONLY
- VERY ATTRACTIVELY PACKED
- EXTENSIVELY ADVERTISED



NEW POCKET PACK

RETAILS AT 7½d.

Other sizes 1/3 & 3/-

ACT QUICKLY — SELL QUICKLY

THOMPSON & CAPPER

WHOLESALE LTD

SPEKE, LIVERPOOL

CHLOROPHYLL

is today the
BIGGEST BEST SELLER!

We are the first to offer it in the most pleasant way
at a very popular price and with a large margin of profit
for you as

"PHYLL"

**CHLOROPHYLL
CHEWING GUM**

(NO POINTS)

If you are a Wholesaler . . . please fill in and send us the attached coupon

If you are a Retailer please fill in and send us the coupon as well; we shall pass it to wholesalers distributing these lines

To DEGREE MANUFACTURING CO. LTD.
Southall Lane, Southall, Middlesex

Send me—without obligation on my side—FREE samples, prices and other details of "PHYLL" the Chlorophyll Chewing Gum

I am a WHOLESALER / I am a RETAILER
(Please delete words not applicable)

Name

Address

For

PILLS

TABLETS

OINTMENTS

CREAMS

PASTILLES

CAPSULES

SUPPOSITORIES

●
**IN BULK
OR
PACKED**

ENQUIRIES INVITED

●

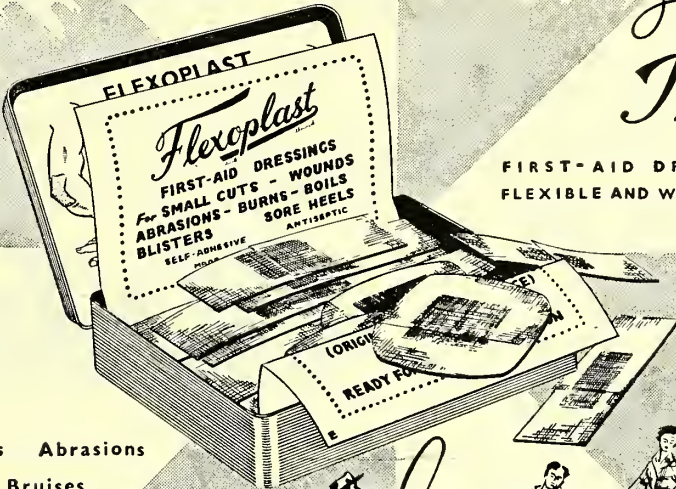
Cox *of* **BRIGHTON**
ENGLAND

ARTHUR H.

& Co. Ltd.

MANUFACTURING CHEMISTS SINCE 1839

THEY ALL BUY ...



Flexoplast
REGD BRAND

FIRST-AID DRESSINGS
FLEXIBLE AND WATERPROOF

- For Cuts Abrasions
- Burns Bruises
- Small Wounds
- Sore Heels

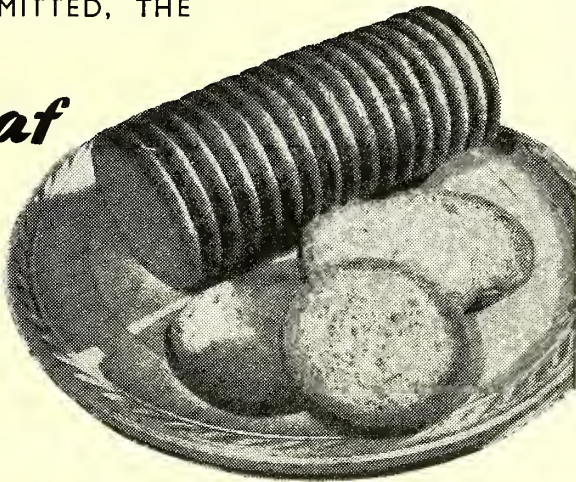


Obtainable from all wholesalers.
A PRODUCT OF EDWARD TAYLOR LTD. MONTON LANC'S
TF139

IN THOSE CASES WHERE BREAD IS PERMITTED, THE

Procea Diabetic Loaf

IS INDICATED BECAUSE . . . it is attractive and palatable, while at the same time it conforms to medical requirements, as a study of the Average Analysis will show. This acceptable and nutritious Diabetic Loaf is in fact useful in any diet designed to reduce starch intake or to increase dietary protein.



AVERAGE ANALYSIS

- * One ounce of this bread at 30% moisture content contains :—
- Protein ... 6.5 grams
- Mineral matter ... 0.5 grams
- Fat ... 2.5 grams
- Carbohydrates ... 10.5 grams
- Protein-Carbohydrate ratio ... 1 to 1.6 approx.
- Carbohydrate content per slice ... 2.5 grams. approx.

DESIGNED FOR EASY MEASUREMENT

An interesting feature of this Procea loaf is that its exterior is ribbed. This allows the amount of bread to be pre-determined with some degree of accuracy. The Procea Diabetic Loaf is baked to the formula prescribed by medical authorities for the attainment of a suitably low starch content for the diabetic subject, and is obtainable from authorised bakers, chemists, health stores, etc. For further particulars, please write to the address below—giving, if possible, the names and addresses of your local bakers or other stockists.

PROCEA PRODUCTS LIMITED., Procea House, 47, Dean Street, London, W.1

* One ounce of average National bread at 36% moisture content contains :—Protein 2.4 grams. Mineral matter 0.6 grams. Fat 0.3 grams. Carbohydrates 14.7 grams. Protein/Carbohydrate ratio—1 to 6.1

*A wonderful new
addition to the
Inecto range . . .*

INECTO

FOUR-IN-ONE SERIES

Specially prepared for dealing with drab or faded hair or just that *touch* of greyness. Colours permanently, brightens and conditions — in one application.

★ 11 lovely NEW shades:

- | | |
|----------------------|------------------|
| 14 Blue Black | 19 Bright Auburn |
| 15 Dark Brown | 20 Golden Brown |
| 16 Medium Warm Brown | 21 Light Bronze |
| 17 Light Chestnut | 22 Honey Blonde |
| 18 Ash Brown | 23 Smoke Blonde |
| 24 Haze Blue | |

IN ATTRACTIVE HOME PACK

Price 5/- Wholesale (inc. 2s. 6d. P.T.), 6/- Retail

RAPIDOL LTD., 27 DOVER STREET, LONDON, W.1

Regent 7541 (12 lines)

*Have any
of your customers
been to Scotland?*

They're certain to know all about

Askit

the Powder that's a household name!

'Askit' is Scotland's leading Proprietary Medicine for the safe, speedy relief of Headaches, Neuritis, Rheumatic and Nerve Pains.

Manufactured by

ASKIT LTD : MANUFACTURING CHEMISTS : GLASGOW N

and stocked by

ALL LEADING WHOLESALE HOUSES THROUGHOUT BRITAIN

**More and more people
are asking for**

**VICHY-
CELESTINS**



THE WORLD-FAMOUS
FRENCH SPA WATER

*Bottled as it flows
from the spring*

There is an ever increasing demand for Vichy-Celestins, over 40,000,000 bottles of which are sold annually throughout the world. Showcards and leaflets available to retailers on request.

Sole Agents for the United Kingdom:

Ingram & Royle Ltd.,

50 Manchester Street, London, W.1.,
also distributors of the other famous French Spa
Waters:—Contrexéville-Pavillon, Evian & Vittel.



VEGETO-POLYHORMONIC HYPOTENSOR

Detensyl

Of established therapeutic value

The M.B.L. preparation DETENSYL has established therapeutic value in conditions requiring the lowering of arterial tension. In many indications associated with blood pressure, regular administration, as prescribed, restores normality. Subsequently a small, periodic dosage is recommended for maintenance. DETENSYL is prepared, in the form of tablets, from mistletoe, liver, pancreas and lung substances. It is more than a palliative because it re-educates the endocrine glands, allowing them to resume their regulation of the arterial tension. Although mistletoe, the chief constituent, is itself a proved hypotensor, without the supplementary elements its action would be neither so rapid nor so prolonged.

Indications

Conditions frequently associated with blood pressure, such as Menopausal Disturbances, Arteriosclerosis, Sclerosis of the Kidneys, Persistent Cephalalgia, Arthritis and Auditory and Ocular Troubles, respond to DETENSYL therapy and almost inevitably disappear with the lowering of arterial tension.

**MBL**

MEDICO-BIOLOGICAL LABORATORIES LTD
CARGREEN ROAD, SOUTH NORWOOD, LONDON, S.E.25

Air-wick Display Bonus Offer

AVAILABLE NOW UNTIL MARCH 20

All orders received on or before March 20
for immediate delivery

**1 Free Bottle in every 6!
12 for the price of 10!**

Cash in on the extra profit of this special offer

DISPLAY AIR-WICK

Write to your wholesaler or direct to us for further details
AIRWICK LIMITED, 11 STOKE POGES LANE, SLOUGH, BUCKS.

FOR CHEMISTS



DRUGS

SUNDRIES

Manufacturing Chemists

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PROPRIETARIES**

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BRANCH WAREHOUSE: GROSVENOR ST., ASHTON under LYNE. Tel: 2816 (3 lines)

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LABELS

THOMAS WAIDE & SONS LIMITED
KIRKSTALL HILL LEEDS 5
KNOWN ALL OVER THE WORLD

THOMAS

WAIDE

& SONS LTD.

PRINTERS & LITHOGRAPHERS

OVER

70

YEARS

CARTONS

AND OTHER PRINTED MATTER

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Owbridge
LINES

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PASTILLES

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The familiar **OWBRIDGE'S LUNG TONIC** and two new profitable lines—write now for full price-list to . . .

W. T. OWBRIDGE LIMITED • HULL • ENGLAND

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BECAUSE OF THE BUTTERSCOTCH FLAVOUR

special bonus terms

Orders for 'CPL' products to the net value of £5 and over qualify for 10% discount. Please send such orders, indicating the wholesaler for invoicing, to



CLINICAL PRODUCTS LTD.
RICHMOND, SURREY

Telephone: RICHmond 4023/24, 4409, 5931

DICTIONARY OF SYNONYMS

For the pharmacist and his staff.
Contains over 7,000 synonymous terms.

5/4 POST FREE

The Chemist and Druggist
28 ESSEX STREET, LONDON, W.C.2

It's advertised everywhere and in steady demand

NERVONE
REGD

The New Biochemic Tablet

Show material gladly sent free on request

'NERVONE' CECIL HOUSE, HOLBORN VIADUCT, LONDON

THEN....**1947 20'.****1948 16'.****1949 11'.****1950 6'6****1951 4'10 $\frac{1}{2}$** **1952 4'1 $\frac{1}{2}$**

**One
Million
Units
Crystalline
Penicillin G**

and NOW...1953 3'6
from 2nd February

Distributed by:

Allen & Hanburys Ltd.

British Drug Houses Ltd.

Burroughs Wellcome & Co.

Evans Medical Supplies Ltd.

Imperial Chemical
(Pharmaceuticals) Ltd.Pharmaceutical Specialities
(May & Baker) Ltd.

The efficacy and wide applications of penicillin make it probably the most prescribed drug in the pharmacopoeia. For this reason, a reduction in price of this substance and its preparations is of major importance in the economics of general and hospital practice.

Applications from the retail and wholesale trade for credit on stocks of our antibiotic products (Penicillin G, 'Distaquaine' preparations, Streptomycin, Dihydrostreptomycin and 'Distavone') held at closing time on 31 January should be made within 14 days to the supplier by whom the goods were invoiced. Batch reference numbers should be given on claims.

For further details see
trade note in this issue.

Manufactured by:

**THE DISTILLERS COMPANY
(BIOCHEMICALS) LIMITED**

Owners of the trade marks 'Distaquaine'
and 'Distavone'

SPEKE

LIVERPOOL

BUSINESS IS GOOD— with SILCOT

SILCOT
NATIONAL
ADVERTISING

If you sell Silcot, business is good

Orders show that you have begun 1953 very well indeed with Silcot. Which goes to show that there is everything to be said for selling a quality cotton wool towel, nationally advertised, and bringing you daily sales.

Quality for All

It is a feature of Silcot that while it is a quality towel (in addition to the cotton wool filling it has soft knitted covers and stitched loops) its price ensures *quality for all*. There is nothing to surpass Silcot for comfort. It is absolutely safe. And it is economical in use.

Bringing More Business

It therefore follows that Silcot, affording the comfort it does, selling at the price it is—and advertised all the time, too—is a towel which will not only *keep* your business but *keep it moving*.

SILCOT *Cotton Wool Sanitary Towels*
QUALITY FOR ALL

MACDONALD & SON LTD. · HOPE MILLS · POLLARD STREET · MANCHESTER, 4



Silcot advertisements
appear regularly in

LADIES' JOURNAL
WOMAN & HOME
EVERYWOMAN
WOMAN'S JOURNAL
GOOD HOUSEKEEPING
VOGUE
WOMAN'S WEEKLY
WOMAN'S OWN
HOUSEWIFE
WOMAN
PICTURE POST
STITCHCRAFT

Woolley

FRANGULA COMPOUND TABLETS

For the relief of pain and nausea in cases of gastric and duodenal ulcers.

These tablets have been introduced in this country following the considerable success shown in treatment abroad of cases of gastritis, hyperacidity and nervous stomach complaints.

Formula:	Heavy Magnesium Carbonate B.P.	-	-	-	-	-	-	-	36.36%	(6.17gr.)
	Bismuth Subnitrate B.P.C.	-	-	-	-	-	-	-	31.82%	(5.40gr.)
	Sodium Bicarbonate B.P.	-	-	-	-	-	-	-	18.18%	(3.08gr.)
	Frangula B.P.C.	-	-	-	-	-	-	-	2.27%	(0.38gr.)
	Calamus B.P. 1934	-	-	-	-	-	-	-	2.27%	(0.38gr.)
	Base	-	-	-	-	-	-	-	9.10%	(q.s.)

Retail pack: bottles of 100: 5/9 each plus purchase tax 33⅓%. Retail 10/6 each incl. tax.

Dispensing pack } bottles of 500: 24/6 each, exempt from purchase tax.
 } bottles of 1,000: 48/- each, exempt from purchase tax.

Samples and showcards will be forwarded upon request.

W 17

Manufactured in the laboratories of :-

JAMES WOOLLEY SONS & CO. LTD., VICTORIA BRIDGE, MANCHESTER, 3

handy
ANDIES

**THREE PLY
HANDKERCHIEF
TISSUES**

20 for 6d

new; they're in season now
e thicknesses of super soft,
strong tissue, 'hem stitched' and
they look and feel like linen.
the hanky for real colds, in pocket-
g packs of 20 (60 full size tissues!) for 6d.



JUST LOOK AT THIS PROFIT MARGIN

Another 'best seller and another best-ever profit margin from
St. Andrew Mills Ltd.

handy **ANDIES** Retail 6d. a packet Trade 4/- a dozen

ORDER NOW THROUGH YOUR USUAL WHOLESALER — COUNTER DISPLAY CARDS SUPPLIED.

AN ANDREX PRODUCT British Made at St. Andrew Mills Ltd., London, E.17.

CENTRES OF LEARNING



GUY'S
HOSPITAL

THE RANGE INCLUDES :

Barbiturates • Bismuth Salts
Bromides
Caffeine and Preparations
Chloral Hydrate • Chloroform
Citrates • Cocaine and Salts
Ephedrine and Salts
Ether (*Solvent and Anaesthetic*)
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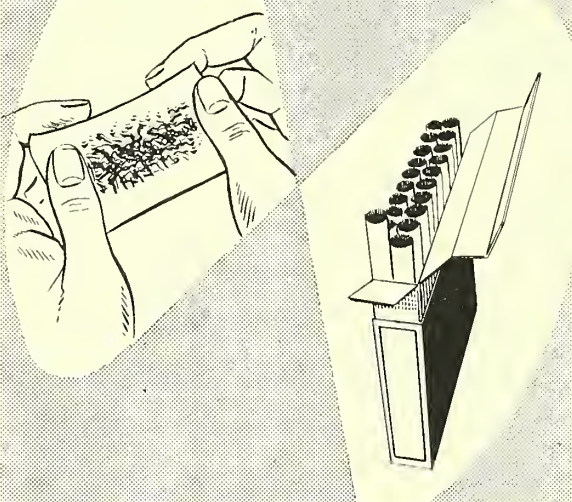
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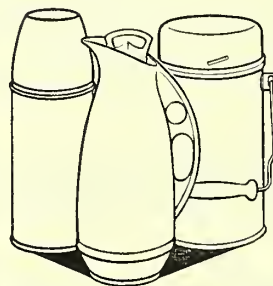


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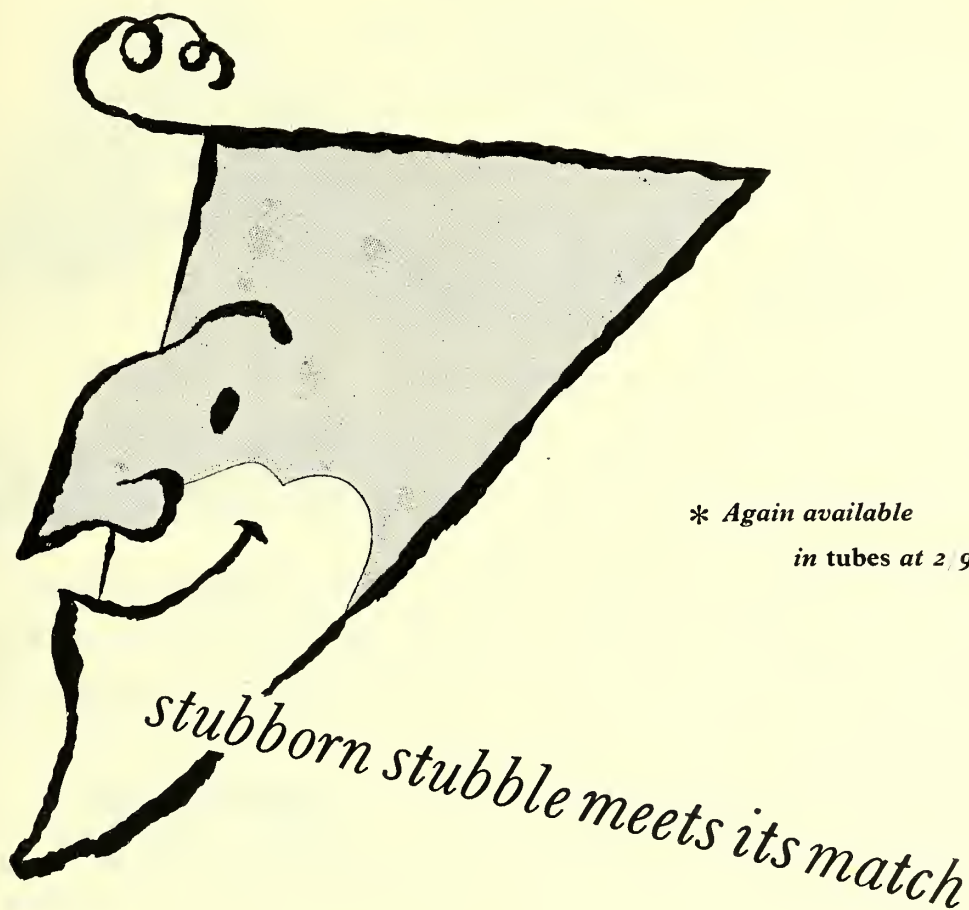
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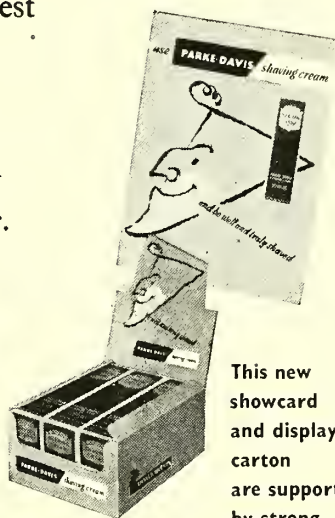
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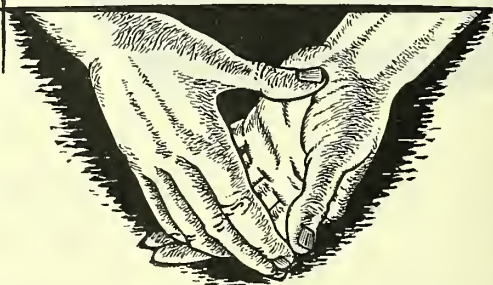
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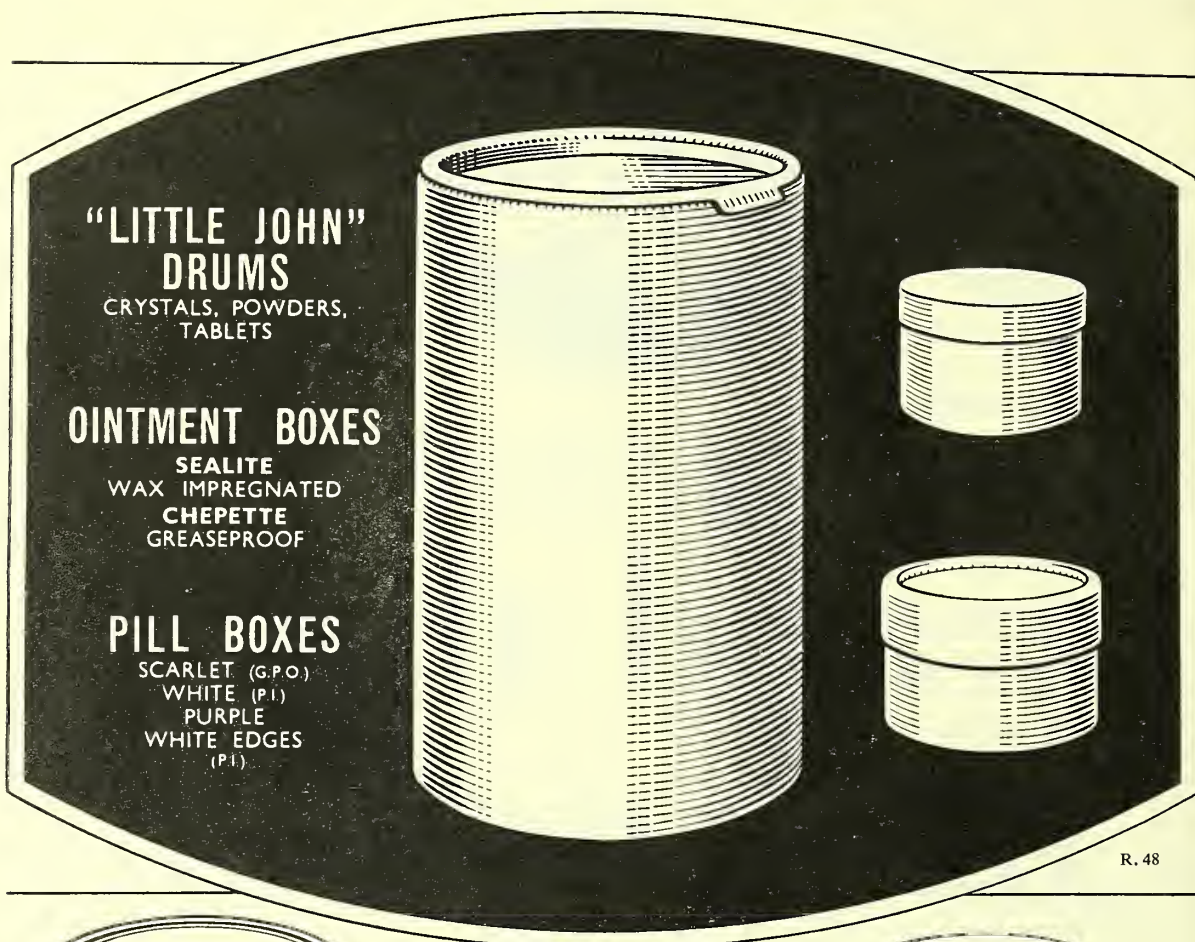
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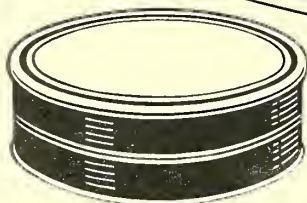


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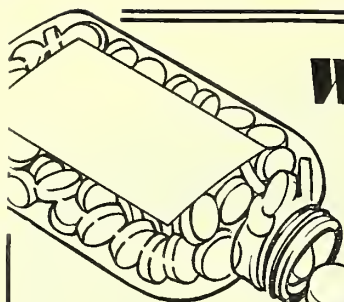
In addition to the reduction in phialled Penicillin prices announced elsewhere in this issue, the following reduced retail prices for Penicillin Products manufactured by B. W. & Co. come into effect on 2nd February 1953

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						s. d.
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" " " "	" " 100					17 0
" " " "	" " 250					40 3
100,000 " " "	tube of 10					5 3
" " " "	bottle of 100					45 9
" " " "	" " 250					112 0
200,000 " " "	tube of 10					6 9
" " " "	bottle of 100					60 0
" " " "	" " 250					147 0
500,000 " " "	tube of 10					16 6
" " " "	bottle of 100					150 0
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300,000 I.U. per c.c.,	rubber-capped bottle of	10 c.c.				12 1½
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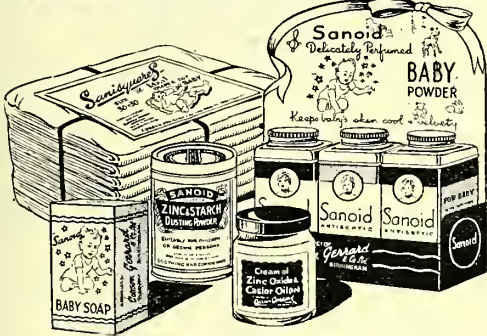
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PLASTIC BABY PANTS	2/-	—	16/-
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Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 159 January 31, 1953 No. 3806

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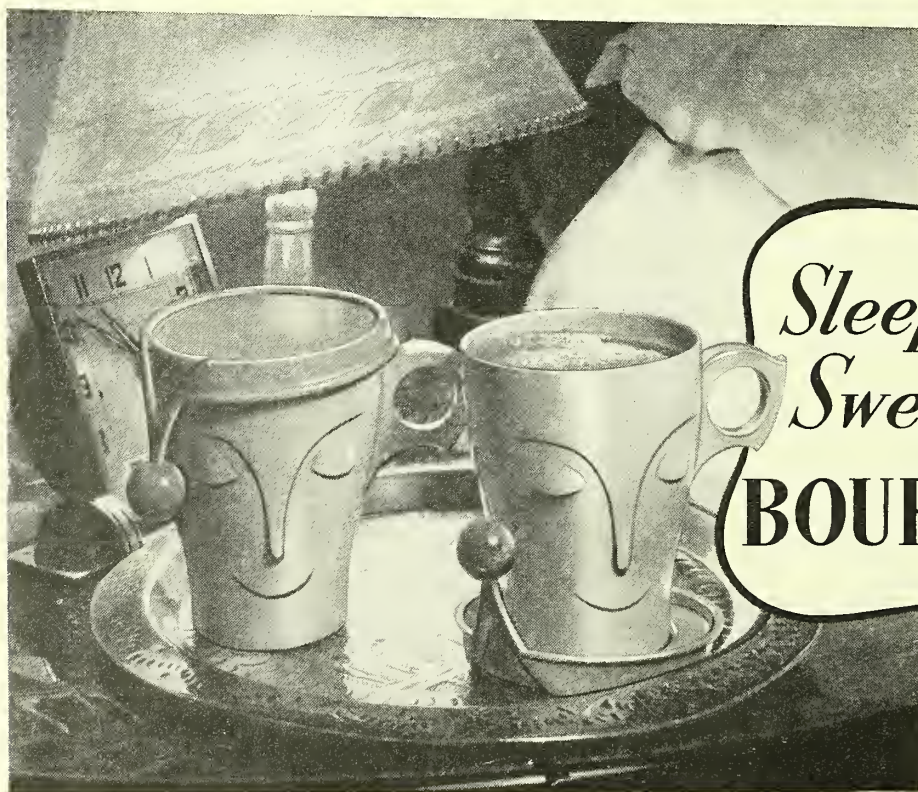
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The CHEMIST AND DRUGGIST

Volume 159

JANUARY 31, 1953

No. 3806

'Mild' Epidemic of Influenza CURRENT PREVALENCE IN BRITAIN

THE Minister of Health considers that the influenza now prevalent especially in the southern half of Britain constitutes an epidemic, though not a severe one.

The form of the infection is generally mild and the next few days should indicate whether a more serious turn is likely. At present there is nothing to indicate that is it. Deaths from influenza in 160 great cities in the first three weeks of January were 29, 51, 72. In the first three weeks of January 1951, when there was a serious epidemic, chiefly in the north of England, the figures were 485, 866, 1,099. The virus has been identified as an A Prime strain, first isolated in Scandinavia. It caused mild cases in 1951-52 and severe attacks in the Liverpool epidemic of the previous winter. France and Germany are being affected with influenza epidemics.

The measles epidemic, which has been increasing since November 1952, seems to have reached its peak and to be now decreasing.

GOVERNMENT CHEMIST

Report on 1952 Work

THE report for the year ended March 31, 1952, on the work of the Government Chemist's Department records that work is being done in the Government laboratory on preparing specific gravity tables at 20°/20° C. based on the data of the 60° F. and 80° F. tables already in use. An unusual off-ration animal feeding-stuff examined by the Laboratory was composed largely of mycelial felt—a mass of hyphae and spores obtained as a by-product in the manufacture of penicillin. The Home Office submitted a large selection of samples of the habit-forming drug *Catha Edulis* (known locally as *kat*), the chewing of which is a social problem in British Somaliland. Ephedra alkaloids were found present in the fresh shoots to a total of 0.07 per cent., and storage for ten days at tropical temperatures did not decrease that amount, but it has not been established that the ephedra alkaloids are the habit-forming principle. In collaboration with a committee convened by the Agricultural Research Council, a study was undertaken on methods for determining bis-(dimethylamino) fluorophosphine oxide in a proprietary insecticide. Work was also undertaken for a British Pharmacopœia committee

on methods for the official assays of thyroid and of mercury ointments. There was an increase in the number of disinfectants submitted for approval under the Diseases of Animals Act possibly owing to the wide incidence of foot-and-mouth disease.

PRICE MAINTENANCE

First Report of Defence Fund

THE first report of the trustees of the Price Maintenance Defence Fund launched in July 1951 by the council of the Proprietary Articles Trade Association was issued recently. By the beginning of 1952, it states, over £10,000 had been received. The terms upon which the Fund is held are recorded in a Trust Deed, the first trustees being Messrs. Frederick John Smith, John Edward Goodall and Robert Gordon Dyas. Under the Deed the trustees are empowered to apply the Fund (both capital and income) "for the purpose of preserving and maintaining the principle of resale price maintenance and all lawful methods of its enforcement"; there are specific provisions enabling the trustees to, amongst other

things, organise meetings, issue circulars and other publications; employ political and parliamentary agents; and present evidence or arguments (where the merits of resale price maintenance are in issue) before any Court, Government or Departmental committee or the Monopolies Commission. The trustees have appointed a council of management with Mr. H. E. Chapman as its secretary.

BLOOD DONORS

WHO Recommendation

THE World Health Organisation has issued a recommendation that, by reason of the danger of communicating hepatitis (jaundice) by blood or plasma transfusion, no person who has ever suffered from hepatitis should be accepted as a blood donor. Whenever possible, dried plasma should be prepared from pools of about ten donations, since a single infected donation can infect the entire pool into which it is admitted.

N.H.S. CONTRACTORS

Calculation of Account Payment

A CIRCULAR letter sent by the Ministry of Health on January 26 to the clerk of each Executive Council and of the Joint Pricing Committee for England states that the monthly payment on account to a chemist contractor (not under contract for the supply of surgical appliances only) in respect of prescriptions dispensed in February and succeeding months, should, until further notice, be based on the chemist's



The president of the Pharmaceutical Society (Alderman W. J. Tristram) presenting the badge of office to the chairman of the Burnley Branch at the Branch's recent annual dinner.

average total cost per prescription, including container allowance, for March 1952 increased as follows:—For a prescription of under 2s. 6d., average cost (March 1952), 1d.; 2s. 6d. and under 4s. 2d., 2d.; 4s. 2d. to under 5s. 10d., 3d.; and 5s. 10d. and over, 4d.

MEDICAL BOOKS

An Exhibition in London

AN exhibition of medical books, historical, out of print, and current was held at *The Times* bookshop, 42 Wigmore Street, London, W.1, January 21-28. The oldest volumes in the exhibition were the "Fabrika" of Andrea Vesalius (1543), the "Opera Omnia" of Hippocrates (1657) and a "Medical Dictionary on General Repository of Physic" dated 1775. The historical books also included three lent by the Royal Society of Medicine: Boorde's "Breviary of Health" (1575), Gerard's "Herbal" (1636), and the "Pharmacopœia Londonensis, 1654"; and the following lent by the Royal College of Surgeons of England: Wiseman's "Treatise of Wounds" (1672), Vaughan's "Directions for Health" (1633) (It was displayed open at pages giving directions for making rhubarb and other pills), and Robinson's "Inhalation of Ether" (1859).

In addition to books there were a number of pieces of earthenware and apparatus, many lent by the Pharmaceutical Society:—An earthenware Maw's inhaler (*circa* 1850); two English Delft drug jars, one labelled "Oxym. Scill." (1710-20) and the other "Limon" (*circa* 1670); a bronze pestle and mortar (1608); a Martins poison bottle (*circa* 1870) (the glass on one side was indented to a depth of about two-thirds of the width of the bottle to prevent misuse of contents); a 120-minim glass measure (*circa* 1820) a ladies' respirator (*circa* 1880) (a shaped pad for tying over the mouth: a card accompanying the exhibit stated that the respirator was used as late as 1910 to protect the wearer from cold or other persons from infection); a hollow handled castor oil spoon (nineteenth century); a skin scarifier (*circa* 1840); a wallet containing gelatin lamels (each contained one dose of medicament and was intended for internal use); a portable illuminator for throat examination (early nineteenth century); and a midwifery set in a case (1836).

LONDON CONFERENCE

Progress of Plans

FURTHER arrangements have been decided on for the British Pharmaceutical Conference, 1953, which is to be held in London in the week commencing August 31.

The Conference excursion is to be by river to Greenwich, where the National Maritime Museum and Royal Naval College will be visited. It will be an afternoon excursion, to arrive back in London by 6.30 p.m.

Golf and tennis events are to be held at Moor Park, Herts. and arrangements are also being made concerning bowls. The ladies are to have a dress show, and are to visit a London store roof garden, the House of Commons, and Post Office installations.

The Conference badge is to show a composite sky-line of London, and the names of the sixteen branches which are acting as hosts will be given on a folder that has been approved.

A resolution from the Conference local committee to the Conference Executive recommends that the conference should commence on the morning of August 31, on the ground that by moving the programme half-a-day forward the clash of sporting events with the closing session will be avoided. A sub-committee devoted to the hospitality of visitors from nineteen foreign countries who have been invited has been appointed. Mr. F. C. Wilson is its chairman, and Mr. E. Neville Brown, secretary.

Although £2,800 has been received by the local treasurer the response from members, £523, is so far disappointing.

GERMAN TRADE MARKS

AT the outbreak of war in 1939 there were more than 4,000 trade marks on the United Kingdom Register of trade marks, the proprietors of which were German enemies. Except in certain special cases, the marks remained on the Register during the war in the names of the German proprietors and have since been vested in the Custodian of Enemy Property for England. Subject to the protection of British and other Allied interests, it is now intended to clear the Register of such of these marks as need no longer remain registered, and to return most of the remainder to the former German proprietors or their successors in title. A Board of Trade announcement made on January 28 indicates the procedure which will be followed and sets out the action to be taken by the former German proprietors or by others interested in particular marks or desirous of objecting to their return to the former German proprietors. Broadly speaking, the procedure is that the former German proprietors of certain categories of marks, or their successors in title should, if still interested in their marks, request the assignment of the marks to them by the Custodian. An opportunity will be given to British and other Allied interests to object to any such assignment before the Custodian acts on the request.

FRANCO-BRITISH LINKS

THE Pharmaceutical Society reminds pharmacists of the facilities for providing social contact with French pharmacists offered by the Franco-British Pharmaceutical Commission. Any member who intends to visit France, to have his children visit France or to receive French pharmacist visitors, is invited to communicate with the secretary of the Commission, 17 Bloomsbury Square, London, W.C.1.

PAY AWARD

AN increase of 1d. per hour for men and 3d. per hour for women with proportionate increases for juveniles effective from the first pay day after January 13 was awarded to workers in the heavy chemical, fertiliser and plastics industries by an Industrial Disputes Tribunal that sat in London on January 9.

IRISH NEWS

Changes Made in Health Scheme

SPEAKING at Roscommon on January 21, the Irish Minister for Health (Dr. J. Ryan) said that the Health Bill that was to be published soon would depart in some ways from the White Paper. He had asked the Government to accept certain "relevant objections" that had been made to the scheme. He said that there was no evidence in the scheme of "State interference."

Examination Results

THE following passed Part II of the January Licence examination of the Pharmaceutical Society of Ireland: Alice M. Cassidy, Vincent D. Cronin, Anna B. D. Hayes, Mary E. Healy, Mary T. McCarthy, John P. O'Connor, John G. Pitt, John R. Sherwood, Paula M. Walsh and John Wilson. The following qualified as dispensing chemists and druggists: Roland Lynch, Patrick McMahon, Thomas O'Hanlon, Henry Wm. Salisbury and William G. Wilkinson.

C.F. Committee

AT a meeting of the Northern Ireland Chemists Federation Committee in Belfast, on January 16, Thomas McMullan & Co., Ltd. (nominated by the N.I.C.F. wholesalers) were re-elected wholesalers' representatives on that Committee, and Mr. R. J. Jeffers (Allen & Hanburys, Ltd.) (appointed by the C.F. Council) was re-elected manufacturers' representative for a further period of two years. The following officers were elected: *Chairman*, Mr. R. J. Jeffers, *Vice-chairman*, Mr. C. L. Gordon-Rattie (retailers' representative), *Secretary*, Miss A. E. Strachan.

SCOTTISH NEWS

Advertised Proprietaries

THE Department of Health for Scotland has sent a circular letter to each Scottish Executive Council giving amendments to the list of proprietary medicines advertised direct to the public. Copies for distribution to doctors are being supplied. The following are deleted: Akrotherm ointment, Aspergum, Dismenol tablets, Fissan ichthammol powder, Genatosan B.V.U. tablets, Genosal nasal compound, Huxley's sal antisepticus, and Tubelette menthol and wintergreen cream. The following are added: Crookes' Lacto-Calamine, Drexamin cream, Prodorm cream, and Vykmin vitamin mineral capsules.

£93 Prescription

A PRESCRIPTION for 500 tablets costing £93 was mentioned by Sir William Marshall (chairman of the Lanarkshire Executive Council) at a meeting of the council in Glasgow on January 21. Sir William, who regretted that expenditure on drugs and appliances was rising again after having been checked in the course of the year, said that the number of very expensive prescriptions was comparatively small, but even so, sometimes difficult to justify. Commenting on the £93 prescription, which had been

sent on to the council for investigation, he said "I wonder what a private patient, if there is such a person, would say if he found a prescription issued by his doctor involved him in the expenditure of such a sum." When the charge of 1s. on prescriptions was introduced in June 1952, there had been an immediate and substantial reduction in the number of prescriptions issued, but after about three months there was a gradual increase until in December the number of prescriptions issued actually exceeded that for any previous December. The total of the sums received in respect of the 1s. charge was about £5,000 a month. The average cost of the prescriptions, however, was about 7s. 6d., and the total drug bill last year was £580,000, or about 24s. per head. "That is a startling figure and, as the tendency is universal, something will require to be done centrally if the cost is to be kept in control," Sir William said.

NEWS IN BRIEF

Medical Research Fellowships.—The Medical Research Council is inviting applications for travelling fellowships for the academic year 1953-54. They include four Eli Lilly travelling fellowships in medicine, tenable in the United States by British medical graduates.

Party and Presentations.—Following the company's annual meeting recently, the chairman and managing director of Baird & Tatlock (London), Ltd., followed custom in giving a party. Guests included representatives of Crown Agents for the Colonies, and of industry, commerce and finance. During the evening two members of the staff were each presented with a gold watch in recognition of over fifty years' service with the company.

Hormones in Plant Growth.—At a meeting of the Royal Society of Arts held in Manchester on January 22, Professor S. C. Harland (University of Manchester) gave an address in which he mentioned the "spectacular effects" that hormones had on plant growth. If, he said, the flowering time of grasses could be delayed by hormonal action it might be possible to maintain a permanent leafy sward and radically change the composition of crops for feeding purposes. Even bigger developments were possible when it was learned how the hormones acted on the plants.

Benevolent Fund Benefits.—As a result of the offer by Mr. D. Williamson in his article "Life Beneath the Carboys" (*C. & D.*, 1952.II.845) to send ten shillings to the Benevolent Fund of the Pharmaceutical Society in the name of the first to send in the nick-name of Mr. Everett, one-time lecturer in materia medica at the Westminster College of Pharmacy, the Fund benefited doubly, for Mr. Williamson has received acknowledgements from the Fund of payments of 10s. each on behalf of Osmosis and Nitidism. Old Westminsterians who knew Mr. Everett by any other nickname might like to supplement Mr. Williamson's generosity by themselves subscribing to the Fund under the nick-name they know.

TOPICAL REFLECTIONS

By Xrayser

Taxation Discussed

The declaration issued jointly by the Federation of British Industries and the National Union of Manufacturers, a subject of editorial comment on p. 83, is a heavy indictment of current taxation. It does not stand alone. During the past few days the chairmen of several of our principal banks have issued their annual statements. In reading extended reports of four of these I have found unanimity—variously expressed, of course—on four requisites for national prosperity. (1) Reduced taxation. Industry pays to the Revenue "two-thirds or more of its profits," and the present level of taxation "is estimated to be about 40 per cent. of the national income." (These remarks come from the chairman of the National Provincial Bank, Ltd.) (2) Reduced expenditure by the Government and local authorities; taxation cannot otherwise be materially lessened. (3) Reduction in the cost of the social services, now "approximately twice the total pre-war budget." (4) Saving for investment in productive enterprises. "The only route to solvency is by way of hard work and thrift." Though the technicalities of banking are of no greater interest to people in commerce than the technicalities of commerce are to bankers, the sound sense of the four desiderata I have cited is obvious. All classes of citizens need to take them to heart.

Colds and Coughs

Colds and coughs being ailments about which advice is sought in pharmacies during about half of an average year, the fifth section of the series "Essentials of Treatment" (pp. 90-91) is a valuable reminder of what is safe, and what unsafe, for chemists in business to say across their counters when asked concerning these troubles. One sentence in the article may be remembered as fundamental: "It is sound advice that anyone who has suffered from a cough lasting for three weeks or more should abandon any idea of self-medication and seek medical advice so as to have the condition fully investigated." Your contributor points out that tonsillitis, pharyngitis, tracheitis and bronchitis "exist frequently in the same case," and that the common cold may "provide evidence of such a combination and, in addition, often a sinusitis." The "growing body of medical opinion" that antibiotics and chemotherapeutic substances have of late been used indiscriminately will receive much support. Any routine use of these remedies without sufficient consideration tends to confuse results; and that is always undesirable. The author's remarks on pastilles and lozenges should be noted and remembered. I have not gathered that he insists on patients with any cold or cough remaining indoors: in that matter the age of a patient is no doubt a factor. Whether the time lost by a person remaining at home with a cold represents a greater or less evil than the danger of infecting others is still unknown.

Vetoed Postage Stamps

A correspondent has sent me a cutting from "The Stamp Lover" of last month containing an account of an offer by Schülke & Mayr, German manufacturers of lysol, to operate a postal service in East Africa in 1892. The offer arose from their method of distributing lysol to troops in German East Africa. As the distribution was carried out in remote parts of the colony by native runners, and as these men were accustomed to deliver mail at the same time, Schülke & Mayr suggested to the governor of the colony that the management of the mail service might be assigned to them. The idea was not new, for at that time privately-owned postal services were established in various countries. The governor assented to the firm's proposal; but the German Reichstag overruled him. Meanwhile, stamps of values ranging from five cents to a dollar had been printed. Their respective colours are described as rose, yellowish red, blue, green, and brown. A specimen shown in the cutting sent to me is about the size of a British postage stamp. Reprints, with slight variations in detail, were issued in 1939, the firm's jubilee year.

THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

MR. R. A. BUTLER told MR. C. OSBORNE on January 20 that he was keen to see as early a report as possible of the Committee which is considering the question of stocks on an alteration of purchase tax or Customs and Excise duty.

Dermatitis from Detergents

MR. E. MARPLES (Parliamentary Secretary to the Ministry of Housing and Local Government) told questioners on January 20 that there was little available evidence concerning the corrosion of sewage plants or the causation of dermatitis by detergents.

B.C.G. Vaccination

MR. IAIN MACLEOD told DR. B. STROSS on January 22 that he hoped soon to be able to issue advice to local authorities on the B.C.G. vaccination of school-leaving children.

BTZ in Rheumatism

MISS PATRICIA HORNSBY-SMITH (Parliamentary Secretary to the Ministry of Health) told MR. E. EVANS on January 22 that the use of butazolidin (B.T.Z.) was still under investigation in Great Britain. Current evidence suggested that in view of the possibility of undesirable toxic side effects it should not be taken except under medical direction.

MR. EVANS: Would the hon. Lady agree that it is in the highest degree undesirable and, indeed, cruel that the lay Press should spread the most extravagant claims among the public, leading them to entertain false hopes, all of which will certainly be dashed when they have to come into direct contact with this disease and these alleged cures? MISS HORNSBY-SMITH: I agree wholeheartedly that it is most undesirable that hopes should be raised with respect to drugs which are not yet wholly proven, and I hope that adequate publicity will be given to this question and reply.

Atmospheric Pollution

LIEUTENANT-COLONEL M. LIPTON asked the Minister of Health on January 22, what representation his Department had on the Atmosphere Pollution Research Committee; and whether he had notified the Committee that 4,703 persons died in the Greater London area during the week ended December 13, 1952, as compared with 1,852 during the corresponding week of 1951, a large part of which increase he had attributed to the fog. MR. IAIN MACLEOD: My Department is not represented on the Committee, but the Committee is aware of the figures quoted.

In reply to a further question he said that his Department had been looking into the matter as a problem of the "very greatest urgency." There was a link between the Committee and the Medical Research Council.

Bone Conduction Hearing Aids

MR. IAIN MACLEOD told questioners on January 22 that some hundreds of

bone-conduction hearing aids have been supplied to patients taking part in clinical trials. The bulk supply on order should begin to reach distribution centres within the next few weeks. About 9,000 were required in England and Wales.

Animal Diseases

SIR T. DUGDALE (Minister of Agriculture and Fisheries) told questioners on January 22 that there were 498 outbreaks of fowl pest in 1952 and some 275,000 fowls were involved. During 1952, sufficient anthrax vaccine to vaccinate about 13,000 cattle or twice as many pigs was issued by his Department's laboratory at Weybridge. The vaccine had now been made available generally to veterinary surgeons for use at their discretion, but it was too early to say to what extent its use would increase under new arrangements. Generally, the vaccine had given good results.

Penicillin for Livestock Legislation

The Therapeutic Substances (Prevention of Misuse) Bill was introduced into the House of Lords on January 27 by the Earl of Onslow. Its purpose is to enable additional substances to be brought within the scope of the Penicillin Act, under which antibiotics can only be supplied for treatment on a doctor's prescription. It has been found that it may be advisable to apply this safeguard to substances other than antibiotics. The Bill proposes to allow the substances covered by the Penicillin Act as amended to be sold or supplied, under suitable safeguards, for purposes other than medical. The object of the relaxation is to enable penicillin to be included in food for livestock. Under the Bill, any new substances will be brought within its scope only after consultations with the Medical Research Council or the Agricultural Research Council. The Minister of Health and the Secretary for Scotland are sponsoring the Bill.

COMPANY NEWS

IMPERIAL CHEMICAL INDUSTRIES, LTD.—The company and the Visking Corporation of Chicago are to form a joint company in Great Britain to manufacture polythene film.

IDRIS, LTD.—Net profit for year ended October 31, 1952, was £26,887 (against £29,384 in 1951). A 10 per cent. dividend plus 1 per cent. bonus is recommended on ordinary capital.

JOHN STOW & CO. (HESSLE), LTD.—Mr. Sergeant Bernard Stow (a grandson of the founder) has joined the board.

ARTHUR BERTON, LTD.—A final ordinary dividend of $7\frac{1}{2}$ per cent. on capital increased by 25 per cent. share bonus is proposed. An interim of $7\frac{1}{2}$ per cent. has already been paid on smaller capital. Trading profit for 1952 was £154,814 (£151,653), with net profit £46,510 (£49,322).

LAPORTE CHEMICALS, LTD.—The directors have announced the pri-

vate placing of £2.5 millions $5\frac{1}{2}$ per cent. debenture stock. A fall in profits for the year ending March 31 is indicated in a statement by the company's chairman which estimates the group profit at "not less than £375,000" (against £800,000 previously).

New Companies

CATHRAY PRODUCTS, LTD. (P.C.).—Capital £100. To carry on the business of chemists, etc. Alexandra R. Simmons and Leslie A. Dovey, directors. [Corrected note.]

S. B. PENICK & CO., LTD. (P.C.). Capital £100. To carry on the business of importers and exporters of and dealers in drugs, chemicals, etc. Albert D. Penick (New Jersey, U.S.A.) and Roy G. Archer, directors. R.O.: 5 Fenchurch Street, London, E.C.3.

G. R. BUTTERY, LTD. (P.C.).—Capital £6,000. To acquire the business of a chemist and druggist carried on by R. G. R. Buttery, M.P.S., at Ealing, etc. Robert G. R. Buttery, John W. Kitchenner, M.P.S., and George H. Baker, directors. R.O.: 186 South Ealing Road, London, W.5.

LEGAL REPORTS

Drugs in Unlocked Car.—At Shrewsbury court recently, Dr. David Dickie Clarke, 9 Church Street, Shrewsbury, was fined £20 for failing to keep a Dangerous Drug (pethidine) in a locked receptacle in St. Mary's Place, Shrewsbury, on January 1. Evidence was to the effect that a car was seen parked in St. Mary's Place in the early hours of January 1. On a seat was a leather satchel which contained fourteen phials of pethidine, a bottle of pethidine tablets and a box containing three phials addressed to a patient.

Dangerous Drug Fines.—Stated to be trading in opium as his only means of livelihood, William Louis Benson, Nelson Street, Liverpool, was at Liverpool city magistrates' court on January 7 fined a total of £150 after pleading guilty to permitting his house to be used for opium smoking, and having possession of prepared opium and opium smoking utensils. Five Chinese seamen were each fined 40s. after pleading guilty to smoking opium on the premises. — At Birkenhead, on January 13, a Chinese, Hsing Lee, was fined a total of £10 and ordered to pay £2 2s. costs for possessing prepared opium and £5 for being in possession of utensils for smoking opium.

BUSINESS CHANGES

MR. JOSEPH W. BARBER, M.P.S., has opened a pharmacy at 261 Chesterfield Road, Meersbrook, Sheffield, 8.

J. C. & J. FIELD, LTD. are removing their office to Church Street, Amersham, Bucks (telephone: Amersham 1711), on February 6.

CHARLES ZIMMERMANN & CO., LTD., Dega Works, Walmgate Road, Perivale, Middlesex, are vacating their Glasgow depot on February 28, after which all communications should be addressed to Mr. L. Robertson, 71 Latimer Gardens, Glasgow, S.W.2.

BIRTHS

CRAWFORD.—On January 14, to Alma, wife of George Crawford (a director of George Crawford (Belfast), Ltd., 63A Victoria Street, Belfast), a son.

WHITTET.—At University College Hospital, London, W.C.1, on January 22, to Doreen, wife of Thomas Douglas Whittet, B.Sc., Ph.C., D.B.A., A.R.I.C. (chief pharmacist, University College Hospital), Harpenden, Herts, a son.

DEATHS

ASHTON.—In Grimsby General Hospital, on January 21, Mr. Charles Henry Ashton, Ph.C., Weelsby Road, Grimsby, aged seventy-seven. One of the oldest pharmacists in the town, Mr. Ashton went to Grimsby over forty years ago and opened a shop in Wellington Street. Later he opened other shops in Grimsby and elsewhere. He was in business in New Chester Road, New Ferry, Ches. prior to his retirement in 1945 (when he disposed of the business to his nephew, Mr. E. A. Hebron, M.P.S.). He returned to Grimsby to spend his retirement, but he was always willing to assist other pharmacists in the town during temporary staff shortages. Every Christmas he made gifts of toys to deserving children in the town. Mr. Ashton qualified as a Chemist and Druggist in 1940 and passed the Pharmaceutical Chemist examination in 1901.

BIRD.—On December 29, 1952, Mr. Henry Alexander Bird, M.P.S., Burnbank, Seaton, Seaham, co. Durham. Mr. Bird qualified in 1921.

BIRRELL.—On January 5, Mr. James Alles Pencyuik Birrell, M.P.S., 85 Sandyfaulds Street, Glasgow, C.5, aged forty-three.

BRECKENRIDGE.—On January 21, Mr. William Buchanan Breckenridge, M.P.S., 71 Mulben Crescent, Glasgow, S.W.3. Mr. Breckenridge qualified in 1931.

DOBSON.—On January 9, Mr. Reginald Matthew Graham Dobson, M.P.S., whose address in the register of Chemists and Druggists is 579 Rochdale Road, Manchester, 9, aged sixty-five.

HUGHES.—On January 1, Mr. John Hampden Hughes, M.P.S., Harecourt, Llandilo, Carmarthens, aged eighty-one.

JONES.—At 37 Belsize Lane, Hampstead, London, N.W.3, on January 24, Mr. David Pugh Jones, M.P.S. Mr. Jones qualified in 1911, and was in business at 37 Belsize Lane. He is survived by his widow and was predeceased by his daughter the late Miss Iris Mary Pugh Jones, M.P.S., in November 1952.

MORRIS.—On December 19, 1952, Mr. Robert Leitch Morris, M.P.S., 28 Eastbourne Road, Brighton, formerly of Hawthornden, Wilbury Villas, Hove. Mr. Morris qualified as a chemist and druggist in 1899.

PRINGLE.—At 51 Roseburn Terrace, Edinburgh, suddenly, on January 23, Mr. David Elder Pringle, M.P.S. Mr. Pringle qualified in 1926, and was a director and pharmacy superintendent of Graham & Primrose, Ltd., 37B High Street, Ayr.

SALES.—On January 8, Mr. Benjamin Sales, The Drive, Tonbridge, Kent. Mr. Sales was a founder-director of F. W. Hampshire & Co., Ltd., and retired in 1938. He is survived by his widow, two sons and three daughters.

STEWART.—In Glasgow, suddenly, on January 21, Mr. George Munroe Christie Stewart, M.P.S. (managing director of Frazer & Green, Ltd., 127 Buchanan Street, Glasgow, C.1). Mr. Stewart, who qualified in 1921, had been connected with that company for about thirty years. He took a leading part in pharmaceutical and National Health Service affairs in Scotland. Mr. Stewart was a member of the Executive of the Scottish Department, to which he was co-opted in July 1950 and elected in June 1952. He had been a member of the Pharmaceutical General Council (Scotland) since 1947, in 1950 he was elected vice-chairman and a year later chairman. He was a member of the Glasgow Local Pharmaceutical Committee and of the Scottish Health Services Council and Standing Pharmaceutical Advisory Committee. He was also a founder member of the Glasgow Pharmacists' Association, and was a former member of the committee of the Glasgow Branch of the Pharmaceutical Society. He is survived by his widow and three daughters.

Dr. D. McCall writes: During the comparatively short time that Mr. Stewart acted as chairman of the Standing Committee, he won the confidence and respect of its members and clearly demonstrated his ability to handle skilfully the problems that arose from time to time. Personally, it was a great pleasure to have Mr. Stewart as chairman as I had known him in the session 1920-21 as a member of a very large class of ex-Servicemen who attended the School of Pharmacy in Dundee Technical College. In that large class, he was the outstanding student.

Mr. Andrew Officer writes: The shock of the untimely and unexpected passing of George Stewart is, perhaps, mellowed by the thought that maybe he would have wished to die in harness. Thus it was, for it was on a journey to yet another meeting in Edinburgh that the call came. Pharmacy in Scotland, particularly on the administrative side, is the poorer for his departure, but his interests lay in all sections. He was the perfect committee man, and his presidency of the Standing Committee and General Council will be a memory and example to any who succeed him. One was not long in any meeting with George in the chair before it became evident that he had made a close study of the subject for discussion, and he had the facility of directing, courteously and firmly, the speakers to the point that matters. He had also the rare gift of assembling facts and presenting them as the very core of a subject, and a facility for giving, weeks later, a detailed report of a meeting. There is little doubt that his capable handling of the duties which befell him in a key position in a large business, together with the zeal and hard work he put in on many committees, im-

paired his health. Well may it be said in grateful memory, "Well done, our good and faithful servant."

STOW.—On January 5, Mr. Harold John Stow (chairman and managing director of John Stow & Co., Ltd., Hessle, Yorks.) Mr. Stow had been connected with the company since its inception in 1918.

TILBURY.—In the Royal Masonic Hospital, London, on January 25, after a brief illness, Mr. Sidney Tilbury, chairman and managing director of Lewis Tilbury & Co., Ltd., 41 Eastcheap, London, E.C.3, aged sixty-four. Mr. Tilbury commenced his career as a boy in the spice and drugs trade with J. Travers & Sons, Ltd., and in 1929, in company with Mr. A. J. Lewis started in business as pepper and spice grinders and produce merchants in Eastcheap. He was chairman of the Federation of Edible Nuts Associations and was connected with many other trade associations and charitable institutions. A memorial service is being held at St. Margaret Patten's Church, Eastcheap, at noon on February 4.

TORRANCE.—At 30 Dungleigh Street, Glasgow, N.W., on January 16, Mr. John Younger Torrance, M.P.S. Mr. Torrance qualified in 1914 and was formerly in business in Bridge Street, East Linton, East Lothian.

WIMBUSH.—Recently, Mr. James Bernard Wimbush, M.P.S., Felden, Carlton Lindrick, Worksop, Nottingham. Mr. Wimbush qualified in 1922.

WILLS

Mr. T. BROWN, M.P.S., Nanteos, Charleston Road, Penrhyn Bay, Llandudno, left £8,993 (£7,833 net).

Mr. A. L. S. COSH, M.P.S., 59 Lower Redland Road, Redland, Bristol, left £23,629 (£23,356 net).

Mr. W. FIRTH, M.P.S., 20 Leyfield Road, Dore, Sheffield, left £11,492 (£10,765 net).

Miss I. M. P. JONES, M.P.S., 37 Belsize Lane, London, N.W.3, left £1,120 (£1,075 net).

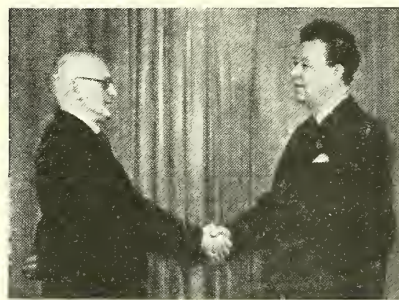
Mr. R. E. KNOWLES, M.P.S., 51 Buckingham Road, Morecambe, Lancs, left £193.

Mr. F. LEA, M.P.S., 22 Rectory Road, Cardiff, left £1,580 (£1,509 net).

Mr. F. MCKINLAY, M.P.S., Weston, Spire Hollin, Glossop, Derby, left £25,982 (£22,947 net).

Mr. R. W. MCNINCH, M.P.S., 25 Robsland Avenue, Ayr, left £17,662.

Mr. G. T. SUMNER, M.P.S., 27 Station Road, Rickmansworth, Herts, left £1,768 (£1,706 net).

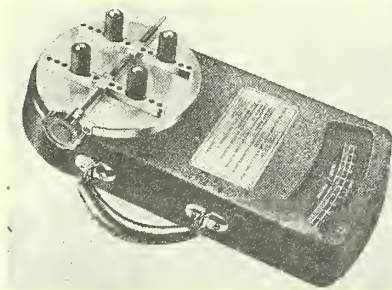


TWENTY-FIVE YEARS' SERVICE: Mr. A. H. Towell, Devon representative of F. W. Hampshire & Co., Ltd., Sunnydale, Derby, receives the congratulations of Mr. W. H. Watkin (sales manager of the company) on completing twenty-five years' service with the company. Mr. Towell was presented with a wireless receiver.

TRADE NOTES

C. & D. Poisons Guide.—The price of the newly issued Volume 2 (see *C. & D.*, January 24, p. 83) is 40s. and not as previously stated.

Testing Screw-cap Tightness.—A means of testing on the factory production floor the tightness of screw caps on bottles and jars is provided by the closure division of United Glass Bottle Manufacturers, Ltd., 8 Leicester



Street, London, W.C.2, in the Kork-a-Torque instrument illustrated. The instrument enables the optimal tightness for leakage-proof seal to be achieved without difficulty in opening through over-tightness.

Bonus Offer.—During February, March and April, Dalmas, Ltd., Junior Street, Leicester, are offering thirteen tubes of Guntex (for sore gums and ulcers) for the price of twelve.

Pocket Pack.—An illustration appears on another page of the pocket pack in which Q.A. quick-acting aspirin tablets are available from the manufacturers, Thompson & Capper Wholesale, Ltd., Speke, Liverpool, 19.

Tax-free Pack.—William R. Warner & Co., Ltd., Power Road, London, W.4, announce the introduction of a new 80-oz. tax-free dispensing pack of Agarol to replace the present 14-oz. dispensing bottle.

Hard-rubber Combs.—Vulcanite hard rubber combs illustrated on another page by North British Rubber Co., Ltd., Castle Mills, Edinburgh, 3, are described as "thoroughly hygienic and eminently safe." They withstand all

sterilising fluids and are exceptionally durable.

Display Unit.—A new counter show-card has been issued by Johnson & Johnson (Gt. Britain), Ltd., Slough, Bucks, for Johnson's handkerchief tissues, has been designed by Alfred Pemberton, Ltd., and is now available. The display unit, standing 18-in. high and measuring 14 in. across, is made in



cardboard in the shape of a tissue, and holds five packs arranged in step formation. A caption invites customers to serve themselves.

In Plentiful Supply.—The Dabitoff Co. (London), Ltd., 29 Dumont Road, Stoke Newington, London, N.16, state that this year there will be no difficulty in meeting all demands for Dabitoff dry-cleaner (with patent cleaning pad) resulting from national advertising due to commence in February.

Diabetic Bread.—A feature of the Procea diabetic loaf, an analysis of which appears on another page, is that its exterior is ribbed to enable the correct weight of slice required to be cut

off with fair accuracy. The makers are Procea Products, Ltd., 47 Dean Street, London, W.1.

Makers and Sole Suppliers.—Wimzo, a chlorophyll hand jelly now being nationally advertised, is manufactured by Wimsol, Ltd., Keighley, Yorks, who are also the sole suppliers. Wimzo sells readily to mechanics, engineers, and others.

Mount Everest Expedition.—The work of assembly and packing medical supplies for the British Mount Everest Expedition, 1953, has been entrusted to The British Drug Houses, Ltd., Graham Street, City Road, London, N.1. In addition to providing preparations of their own manufacture, the B.D.H. are receiving and packing products from other firms who also are giving them to the expedition. Dr. M. P. Ward (a member of the party) recently visited the company's premises to check the order for those supplies.

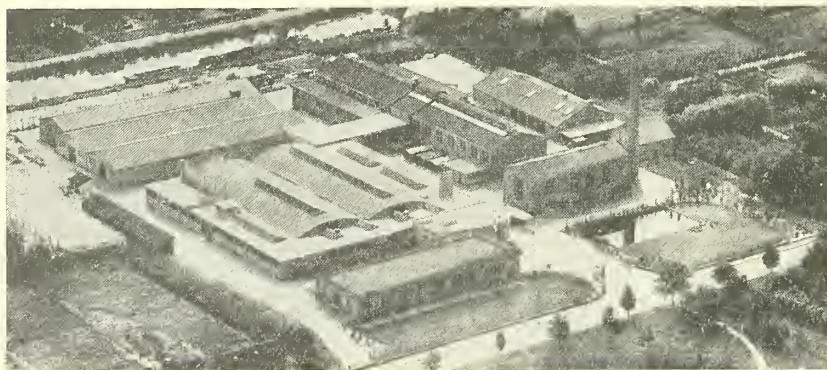
An Improved Toilet Soap.—J. Bibby & Sons, Ltd., King Edward Street, Liverpool, 3, now incorporate "an original and elusive new perfume" and lanolin into their Araby toilet soap. The product has been awarded the seal of the Good Housekeeping Institute, and a new wrapper, specially designed to appeal to the public during Coronation year, has been adopted. Messrs. Bibby state that of all the toilet soaps now being nationally advertised at its price, Araby alone is made by an all-British independent manufacturer.

Non-slip Rubber Gloves.—The complaint often made against household rubber gloves that they do not provide a secure hold on articles handled has no validity with the Suregrip house-



wear gloves manufactured by London Rubber Co., Ltd., Hall Lane, Chingford, London, E.4, which, while internally "satinised" to ensure ease of putting on and off, are externally finished with a non-slip surface.

Penicillin Prices.—Under "Weekly Price Changes" in the Coloured Supplement are given details of changes of price of many penicillin preparations. It should be noted that the changes apply to the Tabloid branded preparations of BURROUGHS WELLCOME & Co., London; the Distaquaine branded preparations of the DISTILLERS' Co. (BIO-CHEMICALS), LTD., Speke, Liverpool, 19; the Crystopen, Estopen, Prolopen, Mylipen and Seclopen branded preparations of GLAXO LABORATORIES, LTD., Greenford; and the Duracillin branded preparations of ELI LILLY & Co., LTD., Basingstoke.



OPIATES PLANT FOR HOLLAND: Verenigde Pharmaceutische Fabrieken N.V. (United Pharmaceutical Works, Ltd.), Apeldoorn, Holland, have recently opened a new plant for the large-scale production of morphine, codeine, ethylmorphine, diacetylmorphine and other opium alkaloids. The company has been engaged in the manufacture of opiates since 1900, but is expanding its export organisation and is focusing her attention on a number of markets in which it has been inactive until now.

NEW PRODUCTS AND PACKS

Easy-to-sell Pack.—A. L. Simpkin & Co., Ltd., Sheffield, have adopted a new pack for their lemon-flavoured sore throat tablets—jars containing six doz. rolls.

Soft Soap in Glass Jar. — Thomas Reid & Sons, Ltd., Bamyol Soapworks, Scotland Street, Glasgow, S.1, announce that their pine and glycerin green soft soap is again available in a small pack for over-the-counter sale, this time in a 12-oz. clear-glass jar with screw top, packed in cartons holding a dozen jars.

Easy-use Shampoo Sachets.—Vaseline liquid shampoo is now available in single-shampoo sachet with tear-off top as illustrated on another page. Details of a special introductory offer till March 7 are obtainable on application to the makers, Chesebrough Manufacturing Co., Ltd., Victoria Road, Willesden, London, N.W.10.

Oily Suspension for Bronchography. —Glaxo Laboratories, Ltd., Greenford, Middlesex, announce the introduction, from February 2, of an oily suspension

of Dionosil for bronchography, to be known as Dionosil oily. The new product is in addition to the aqueous suspension of Dionosil already available. Dionosil oily is supplied in 20-c.c. vial.

A New Baby-food. — Trufood, Ltd., Green Bank, London, E.1, have introduced a new variety of their Trufood Spoonfoods (strained and homogenised baby foods): Tongue and vegetable puree. It is made from tongue, potatoes, carrots, peas, onions and hydrolysed protein and thickened with barley flour. It contains no spinach. Like the other Spoonfoods varieties it is packed in a clear-glass jar.

Spray and Sprinkler. — Cupal, Ltd., Blackburn, announce the introduction of a new 4-oz. size Secto DDT aerosol press-button spray and new size of Secto DDT powder in sprinkler drums (approx. weight 1½ oz.). A cash discount offer now in operation for Secto DDT products provides for bonuses ranging from 10 per cent. to 15 per cent. Details are available on applica-

tion. Extra discounts of 2½ per cent. and 5 per cent. are also available on two aerosol parcels. Display matter is available.

"Four-in-one" Hair Colouring. — To meet the growing demand from women whose hair is showing a first touch of greyness, Rapidol, Ltd., 27 Dover Street, London, W.1, are marketing Inecto four-in-one series. Four-in-one is designed to brighten, permanently colour and condition the hair in one application and to lighten it several tones according to the shade number selected. Available in eleven shades, from blue black to smoke blonde, Four-in-one is easy to apply. It is presented in the box illustrated.



OVERSEAS TRADE IN 1952

Statistics compiled from the Trade and Navigation Accounts

THE total of United Kingdom exports for the year 1952 was £2,550 millions, a decrease of £30 millions (1 per cent.) compared with 1951; the exceptionally high level of exports in the first quarter was followed by greatly reduced exports in the remaining months of the year. Imports in the year totalled £3,481 millions (c.i.f.), a decrease of £422 millions (11 per cent.) compared with 1951. Re-exports reached £144 millions in 1952 against £127 millions in 1951 and the excess of imports over exports and re-exports was £409 millions (one-third less than in 1951). Had the general level of export prices not been substantially higher than in 1951, a significant fall would have been seen in the value of exports. The volume of exports during 1952 has been estimated at 6 per cent. less than in the previous year. The year is the first since the 1939-45 war in which the volume showed a decrease, though in 1951 the increase was only small.

IMPORTS	1952	1951
	£	£
Chemicals, drugs, dyes, etc. (group total)	42,429,694	65,882,962
Boric acid	169,274	330,830
Borax	457,173	768,717
Iodine	676,457	1,156,885
Phenol	698,720	746,924
Menthol	187,615	960,318
Proprietary medicines	322,838	270,318
Other prepared medicines	4,046,670	4,765,338
Essential oils, excluding turpentine	4,127,023	7,331,980
Tragacanth	697,774	1,129,582
Cinchona bark	137,034	341,932
Ipecacuanha and other roots	230,640	882,803
Bees wax	204,622	855,068
Carnauba and candelilla waxes	880,691	1,778,041
Shellac, etc.	1,934,392	3,205,071
RE-EXPORTS	1952	1951
	£	£
Gums arabic and tragacanth	207,395	528,276
Waxes (excluding sealing and paraffin)	260,679	281,667
Drugs, raw	608,046	511,343
Drugs, manufactured	623,040	1,136,225
Essential oils	494,325	724,960

EXPORTS	1952	1951
	£	£
Chemicals, drugs, dyes, etc. (group total)	138,053,562	142,692,491
Acetone	542,173	288,851
Citric acid	284,869	311,896
Salicylic acid	275,277	—
Detergents	1,516,021	1,447,683
Disinfectants, insecticides, weed-killers, etc.	6,131,136	5,895,210
Spirits, perfumed	664,422	925,107
Zinc oxide	225,917	107,072
Drugs, medicines, medical preparations (total)	31,651,698	34,023,492
Quinine and its salts	296,092	491,454
Proprietary medicines	6,006,368	6,940,774
Aspirin	957,640	782,644
Insulin	362,847	531,009
Penicillin salts	2,439,245	4,862,104
Penicillin injections	2,091,799	—
Penicillin preparations (tablets, lozenges, ointments, etc.)	503,485	1,916,491
Ointments and liniments	1,084,181	1,183,651
Essential oils	758,145	1,137,434
Perfumery and toilet preparations	6,119,072	6,031,759
Cosmetics	2,214,396	1,998,286
Dentifrices	1,234,558	1,458,474
Toilet soap	2,132,115	2,744,471

Exports to the United States increased by £7 millions to £144 millions (thus reaching a total of over \$400 millions for the first time) but there was a reduction of £10 millions to £127 millions in exports to Canada. In the first eight months of the year exports to Canada were less than in the corresponding months of 1951.

The downward trend in exports was reflected in the shipment values of drugs, medicines and medicinal preparations which were valued at £31.6 millions (against £32.9 millions in 1951). How those commodities fared for which the Board of Trade gives individual statistics, can be seen in the following tables. On the import side there was a significant reduction in nearly all basic chemicals and crude drugs arising mainly from lack of demand by the consuming industries. Yet there was a rise of nearly 30 per cent. in the value of proprietary medicines imported but this was offset by a drop in the value of "other prepared medicines" imported.

NORTHERN IRELAND HEALTH BOARD

British Practice Quoted in Cases on the Advertising of Appliances

THE Northern Ireland General Health Services Board, on the recommendation of the Services Committee, at a recent meeting, ordered a deduction of £10 to be made from the remuneration of a firm of chemists who were held to have been in breach of their terms of service by inserting advertisements in Belfast newspapers stating "Appliances supplied under the National Health Service" and by issuing a circular containing the same words. The defence was that the advertisement had already appeared in newspapers in Great Britain and had had the approval of the Ministry of Health. A deduction of £10 was also ordered in the case of contractors on the Board's list who issued a circular letter in similar terms.

Complicity Alleged

Complicity between a doctor and a chemist was alleged at a meeting of the Drug Pricing Committee of the Northern Ireland General Health Services Board at which Mr. H. W. GAMBLE stated that he understood that the doctor practising in a Belfast suburb passed prescriptions for his patients direct to his brother, a chemist in another area of the city, thus apparently denying his patients the right to make their choice of a chemist. The Board's PHARMACIST, in reply to a question, confirmed that a cursory examination of the prescriptions in question tended to support the allegation. The Committee decided that if a further detailed examination of the chemist's prescriptions revealed that an apparently unusual number of the forms were issued by the doctor, the observations of the doctor should be obtained.

A report from the Drug Pricing Committee stated that the Ministry of Health and Local Government had agreed to consider, in collaboration with the Board's pharmacist, a suggestion of the Local Pharmaceutical Committee that sizes should form no part of the specifications of certain appliances. The Ministry also approved payment by the Board for the following additional sizes of appliances with effect from the earliest month for which forms have not yet been priced: GAUZES, 50-yard and 100-yard rolls; ZINC OXIDE PLASTER, 10-yard lengths of the same widths as those already quoted for 5-yard; CHIROPODY FELT, such larger sizes as may appear reasonable to the Board.

The Drug Pricing Committee considered a complaint from a doctor who had handed a chemist eight prescriptions, each for 3 c.c. of whooping cough vaccine and had obtained 2 x 10-c.c. and 1 x 5-c.c. It was decided that payment could only be made for what was supplied and that only one dispensing fee was payable. The chemist should be so informed and warned to obey the Regulations.

It was reported to the Medical Advisory Committee that, although the Board reminded all doctors when the prescription charge was introduced, that it was contrary to the Regulations

to prescribe for more than one person on a form, four doctors had since issued such forms. In reply to an inquiry whether the Committee wished to offer any guidance to the chairman of the Services Committee when the cases were referred to him, the view was expressed that the doctors had not attempted to conceal their action taken to assist their patients.

Other decisions taken by the Board included the following: From January 1, when vaccination pads are ordered, payment should be made for the new type with adhesive straps unless the form is endorsed that the tie-on type was supplied; Kylon applicator sets should be regarded as forming part of the Pharmaceutical Services; the Dangerous Drugs List should be altered to read "one original package not exceeding twelve ampoules"; rectified spirit (S.V.R.) or preparations containing it should not be prescribed for external use; the Ministry should be requested to approve the addition of

Wade's vaccination pads to the Drug Tariff; to seek the views of the Medical Research Council on "G.F.4" as a drug or dietary supplement.

Because of the price of Dettol and the fact that it was not included in the Cohen Committee's list of advertised proprietaries, the Medical Advisory Committee did not agree with a recommendation from the Drug Pricing Committee that Dettol should not be prescribed on the Board's forms. A letter was read from the Ministry of Health and Local Government stating that general practitioners could now prescribe PAS under General Health Services without reference to the medical staff of the Tuberculosis Authority. The Authority had agreed to that course but had expressed the opinion that the drug should only be prescribed for patients whose cases had already been notified to the Authority. The Committee considered that all outstanding prescriptions not on the blue form should be paid for.

PUBLIC SERVICE PHARMACY

Mr. Linstead Speaks at Liverpool

AT a meeting of the Liverpool Chemists' Association and Branch of the Pharmaceutical Society held in Liverpool on January 8, Mr. H. N. LINSTAD (a secretary of the Society) gave an address on "Pharmacy in the Public Services—the Forces, the Hospitals and the National Health Service." Mr. J. P. Murphy presided. Referring to "the battle for Health Service remuneration," Mr. LINSTAD said pharmacists were apt to forget that, basically, remuneration depended upon the quality of the service rendered. The professional man had always to do a bit more than he was paid for. The service must be given first and then remuneration sought.

"Only now, as the result of years of pressure by the Council of the Society, are we beginning to see recognition of pharmacy in the Army," he said. "We have got new proposals from the War Office which are under consideration and which should recognise the principle of pharmacists being taken into the R.A.M.C. in commissioned rank."

Concerning hospital services, Mr. LINSTAD said that it was encouraging that about a year ago the Minister of Health had appointed a committee to inquire into hospital pharmaceutical services. A first rate hospital pharmaceutical service could not be expected unless the pharmacist was given the responsibility of control. The pharmaceutical service was the only section of the National Health Service which had not "creaked and groaned under the weight of the responsibility it had had to face." Too little credit had been given to pharmacists for the greater responsibilities they had shouldered. Retail pharmacists had to "keep on tip toe" if they were to retain the present system of providing for the public through shops. It would

be possible for public dispensaries to be set up where medicines could be dispensed more cheaply, but that would be taking from the community some part of the element of personal service. The lecturer said that two things must be regarded as "sacrosanct"—education and professional discipline.

ALD. W. J. TRISTRAM (president of the Society), referring to the proposed revised code of ethics, said there was nothing in that code which pharmacists would not be glad to adopt and which they were not carrying out at the present time. Mr. LINSTAD told Miss E. DOBIE that the report of the committee which was inquiring into hospital pharmaceutical services would not be out before the end of March. THE CHAIRMAN asked for clarification of clause 6 in the revised statement on matters of professional conduct (concerning "covers" for unqualified persons). Mr. LINSTAD said circumstances would indicate whether a pharmacist was a legitimate manager or merely acting as a "cover." Replying to Mr. E. A. BRIGGS, Mr. LINSTAD suggested that pharmacy and pharmaceutical activities should be separated as much as possible from other services in shops. In windows, pharmaceutical goods should be kept separate from fancy goods. There was no danger of losing the designation, "chemist."

N.H.S. REVISED ESTIMATES

BIRKENHEAD for year 1952-53: Total increase of £118,642; pharmaceutical service, increase of £22,250.

LIVERPOOL for year 1952-53: Total increase of £549,000; pharmaceutical service, decrease of £23,100.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

Council Meeting

A MEETING of the Council of the Pharmaceutical Society of Northern Ireland was held in Belfast on January 16, the president (Mr. W. H. Boyd) in the chair. Also present were Messrs. W. P. Ewart (vice-president), H. P. Crossin (treasurer), S. E. Campbell, H. H. Cowzer, H. J. Cousley, H. W. Gamble, J. Irwin, H. F. Moore, J. McGregor, C. A. Quinn, P. R. W. Shinner, Walter C. Tate, Dr. H. D. Heazley, Professor E. B. C. Mayrs and Professor James Small. An apology for absence was received from Mr. F. R. Moore. The secretary (Mr. William Gorman) was in attendance at the meeting.

Referring to the application from S. Maw, Son & Sons, Ltd., for exemption of their nasal drops containing amphetamine from the fourth schedule, and the Council's accession to the request (*C. & D.*, 1952.II.862), it was decided that before a recommendation was made to the Ministry of Home Affairs the strength of the preparation should be ascertained.

THE SECRETARY reported the receipt of Christmas cards from the Ulster Chemists' Association, the Pharmaceutical Society of Ireland, the Pharmaceutical Society of Great Britain, the Pharmaceutical Societies of Victoria, Western Australia, New South Wales, and South Australia, the Pharmaceutical Association of the Province of British Columbia, and the Academia de Pharmacia de Cuba. The registrar of the Pharmacy Board of South Australia wrote stating that the reciprocity agreement with the Northern Ireland Society had now received the approval of the South Australian Government.

Notification was received from the Ministry of Home Affairs of a Dangerous Drugs Order concerning dextromethorphan, levomethorphan and racemethorphan.

It was agreed that the president of the Pharmaceutical Society of Great Britain (Mr. W. J. Tristram), Mr. Donald W. Hudson, and the secretary and registrar of the Society (Mr. F. W. Adams) should again represent the Pharmaceutical Society of Northern Ireland on the British Pharmacopoeia Commission Selection Committee.

A discussion took place on a letter from a member of the Society complaining of advertising methods used by another member. Another letter expressed appreciation of the action of the Council in drawing attention to advertisements of an offensive nature. It was described as "very necessary and long overdue." MR. COUSLEY moved, MR. SHINNER seconded, and it was agreed, that the complaint regarding advertising should be brought to the attention of the Statutory Committee.

Approach to Doctors

MR. GAMBLE suggested that the Council should approach the Northern Ireland Committee of the British Medical Association with a view to preventing doctors occupying the same sets of premises as chemists. He said there was an increasing tendency for that to happen. THE PRESIDENT said that even where there was a separate entrance the idea of collusion was in the minds of the public. DR. HEAZLEY said such a thing was wrong in principle and suggested that the B.M.A. should be asked for their observations. The arrangements might be "above board" but there were cases in which he had doubts. On the motion of MESSRS. GAMBLE and CAMPBELL it was decided to write to the B.M.A. as indicated. Supporting, THE PRESIDENT said steps should be taken before the practice reached serious proportions. In some cases it was done thoughtlessly. MR. CROSSIN said the trouble was partly due to doctors opening branch consulting rooms.

In a report on the finances of the Northern Ireland Chemists' Benevolent Fund, THE TREASURER said the balance on the year's working, after making grants totalling

£125, was £276, and the total assets of the Fund were £1,285. It was to a large extent due to the success of the president's appeal, which he thought should be made annually. The account was approved.

The Council accepted with thanks the gift from Mr. A. E. Dickson, M.P.S.I., of two glass measures for the museum. These were stated to have been used in a Londonderry pharmacy for more than eighty years. On the recommendation of the Education Committee, the Certificate of Apprenticeship was granted to Messrs. Joseph B. Harkin and David A. Taggart. The report of the Finance Committee was also adopted. Presenting the report of the board of examiners, THE SECRETARY said that in the Part I examination fifty-six candidates entered, two did not attend, nineteen passed, twenty-four failed, two were referred in biology, and eight in chemistry. In Part II, fifty-six entered, seven did not attend (some owing to weather), twenty-one passed, fifteen failed, two were referred in pharmaceuticals, and eleven in chemistry. Of the fifty-six entrants in Part I only two candidates were sitting for the first time. A number were making as many as five to eleven attempts. The regulations did not confer on the examiners the power to tell such students to do certain courses or parts of courses, except in the cases of those who were referred in a single subject. Some students' marks were so bad that the Board felt that it should suggest to the Council that they should be advised to take further courses of study. In the Part II examination there were also candidates sitting up to six times, and it was thought that some limitation should be placed on the number of times students were allowed to enter. The first-time passes showed the value of full-time courses of study, and one candidate gained the gold medal. THE PRESIDENT said it was high time that such a limitation was introduced as the present state of affairs was unfair both to the students concerned and to the Society. It was decided to defer further consideration, including whether to take action in the forthcoming educational regulations or by way of an immediate regulation, until the next meeting of the Council.

TRAVELLER'S JOY

THERE'S a rep.

*On the step
With a brand new Jagnar
And a heavy bag you are
Shortly to see flop
On your glass counter-top.*

*He pounces
And announces
His firm's BEST TERMS
And fairly squirms
At reluctance to buy
But he's had a good try,
Writes "No satisfaction"
On his "CLIENT'S REACTION
(RETAILER'S)" sheet,
While out in the street
There's another rep.
On the step.*

J. J. H.

SPECIALISTS ALL.—A doctor complains in a letter to the Press that his patients nowadays, nourished on popular-magazine articles about vitamins and antibiotics, cortisone and chlorophyll, seem to know more about treatment for their ailments than he does. The answer is to keep them in the waiting room reading obsolete medical journals while he sits in the surgery feverishly mugging up the popular magazines.—From "Punch."

An imaginary example shows what to consider in REMODELLING A PHARMACY

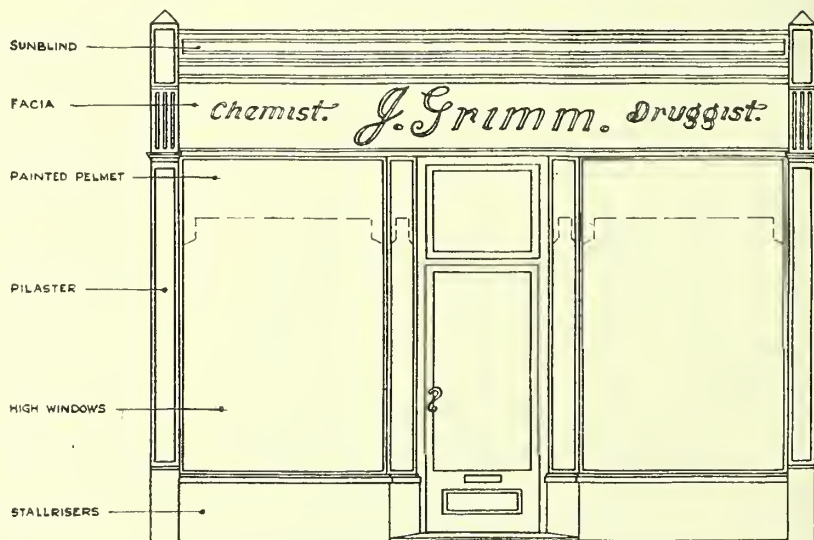
1. The Shopfront

THE year 1953 holds promise of an outburst of enterprise and energy in Britain. The coronation of the Queen will be a time of great rejoicing and many are preparing for that event. Public buildings and streets will be decorated, buildings will be cleaned and renovated, and no doubt many new shopfronts will be installed. To those chemists who may be contemplating improvements to their premises it is hoped that some advice on the subject, to be given in a short series of articles, will be of value. The present one deals exclusively with the shopfront. Others will go into questions of the interior.

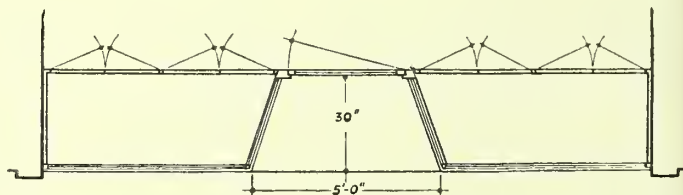
Choice of Example

While no two shopfronts are ever the same, it is necessary to choose an example that is fairly representative, and for the purpose of illustration a comparatively small shopfront has been chosen: Frontage width, 17 ft. 6 in.; height, 13 ft. 3 in. Two drawings are shown; the existing shopfront and the proposed change. In the existing front, which is typical of many shops to be found in almost any town in England, a wood sunblind box surmounts the fascia cornice, the fascia itself being of wood and bearing a

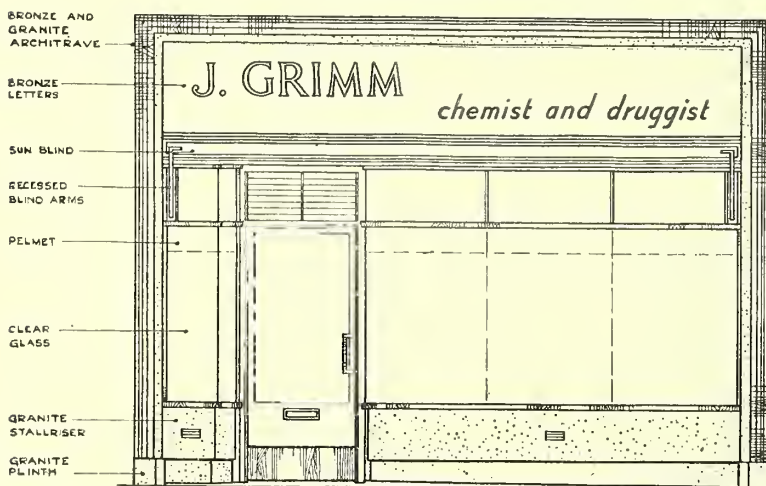
EXISTING



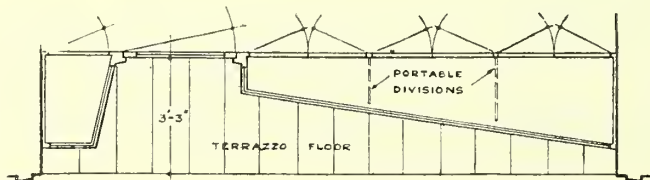
PLAN



PROPOSED



PLAN



painted name. The entrance is central, and as can be seen from the plan, the width at the front of the lobby is 5 ft., depth, 30 in. A hinged fanlight above the door gives ventilation. The windows on either side of the entrance are high; so high that the chemist, after various attempts to reduce the height, has at last resorted to a painted pelmet. Below the windows are stallrisers of either brick or stone. The shopfront sashes are of wood, and there are two flanking wood pilasters. Access to each window from within the shop is by two pairs of hinged doors. Both windows are of the same size, and that is a matter of some concern to the chemist, because the display spaces are too large to allow an intimate perfumery display and too small to give a bold Christmas dressing. If only they were adaptable!

The New Scheme

So the chemist calls in a shopfitter, explains his requirements, and asks for designs. The second illustration shows the scheme eventually agreed upon. One of the chemist's requests was that the design should not be over-modern, as he was anxious not to frighten away

his established trade. While desiring a shopfront with the power to attract, he felt that the design should be dignified in character, as befitting his profession. The proposed front has a bold architrave surround of drawn bronze metal and granite, finishing down upon two granite plinths. The shopfront is thus framed with a clean strong outline. The fascia is also of granite, the name and trade letters being made of bronze metal, with cream enamel-filled centres. Bronze distance-pieces would be fixed behind the letters so that they stand away from the fascia.

Position of Sunblind

The sunblind has been positioned below the fascia to ensure that the name is exposed when the blind is out and to give better proportions to the shop elevation. That position also enables the collapsible blind arms to be folded back into two end boxes within the glazed frieze, thus overcoming their usual awkward projection and protecting them from weather when closed. The frieze is of semi-observed glass, the transome rail lining up with the top of the entrance door. Shop

ventilation is obtained by the use of adjustable glass louvres placed above the door.

Window-dressing Flexibility

The proposed windows are more pleasingly proportioned in height to width than in the old front, and the plan provides one large window and one small. The large one has portable divisions to enable the chemist to vary his window-dressing methods. The stall-risers are of granite, the lobby floor of terrazzo, and the shopfront sashes and blind facings of bronze.

PHARMACIES OF BRITAIN—8



THE PHARMACY OF DOWNWARD'S, MARKET STREET, ULVERSTON

Established in 1830, Downward's pharmacy still retains all the characteristics of the old-fashioned chemist in the country town. Particularly delightful are the large, delicately curved bow window, and the gilded coloured glass panels of lettering: "Physicians' Prescriptions and Family Receipts Carefully and Accurately Prepared." Of interest, too, is the notice in the fanlight relating to the Havana cigars to be purchased in the pharmacy.

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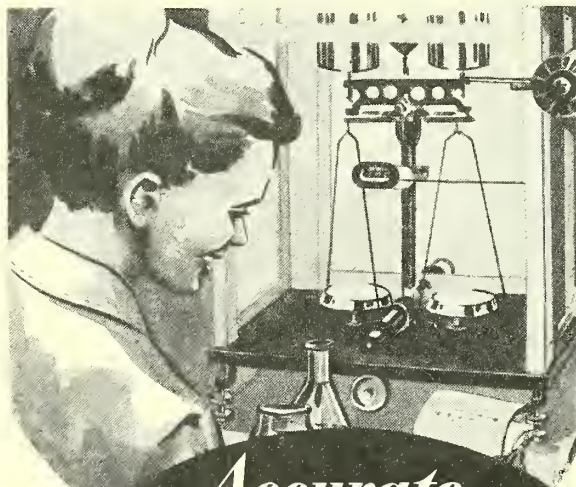
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MYERS of OLD ST.
 133/5 & 141/7, OLD STREET, LONDON, E.C.1

INFORMATION WANTED

The Editor would appreciate information about suppliers of the following items:

FLIFLAP shampoo
 ABCAL tablets
 REYNARDINE for rats
 URINETT
 GRAMOPHILE pessary
 DR. MACKENZIE'S soluble quinine pessaries

The CHEMIST AND DRUGGIST

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TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

Compulsory Purchase Continues

THE proposals set out by the Government in a White Paper on the Town and Country Planning Act 1947 will not interfere, when the forthcoming fresh legislation is put into effect, with the progress of development plans or the compulsory acquisition of land and property.

During the past year an increasing number of local planning authorities have submitted their plans to the Minister and many have had them approved. It is therefore to be hoped that readers whose interests are affected, or are likely to be affected, have taken the advice given to them in these columns (*C. & D.*, 1952.I.712). The Government now states that the wide powers of compulsory purchase already possessed by local planning authorities may be increased, if that is found to be necessary. In making the statement the Government is having regard to the probability that some owners, whose land or property may be required for development and has been so identified in a development plan, may try to stand out for too high a price.

In view of the rather confusing situation which has been brought about by the Government's intention to "unscramble" much of the procedure laid down by the Act and its very many accompanying schedules, it is as well first of all fully to appreciate that the relevant Bill, which precedes the main Bills to be introduced at the end of the year, relates only to the financial provisions of the Town and Country Planning Act. It does not mean that the menace to land and property owners is to be removed and that their land and properties may not be subject to compulsory purchase. Neither does the intended new enactment, or enactments, make any difference to the position as regards planning permission. If a person wishes to build, or dig for minerals, or change the use of a building, he will still have to obtain permission.

When the Minister of Housing and Local Government introduced his Bill to the House of Commons in November 1952 he made it clear that the "development" provisions of the Act had proved to be most unsatisfactory and that the Government intended to try a different procedure. From the sweeping changes proposed generally, certain points arise on which it is essential that any interested party should be quite clear as to what is intended, especially as to the £300 millions compensation fund set aside by Lord Silkin for payment by July 1953 to all owners who, under planning schemes, lost their right to develop. As it is, the

overall payment will not now be made, for only those owners who are affected by actual building restriction will receive payment.

At one time many doubts were expressed whether the total of the fund would be sufficient to cover all claims to be made upon it, but it now appears that only a small proportion of the £300 millions will be paid. Of the questions now being asked by owners the following appear to be the most recurrent: "I have a piece of land and I am being refused permission to build on it; will I receive compensation?" Or, "I want to change the use of a building of which I am the owner but am refused permission—will I be compensated?" There will be compensation in most cases where planning permission is refused, but it will not be payable in a case where the restriction on development is based on the desire to preserve the amenities of the neighbourhood or to safeguard good relations between neighbours.

Where land or buildings or both are "acquired" by the local authority, the basis of compensation will be the current value for their existing use, plus the amount of the loss of the 1947 development value. Any owner refused planning permission should make inquiries of his local municipal offices as to whether his case is one where compensation ought to be paid. Doubtless the Government is bearing in mind that a situation might arise in which many applications to develop had been put forward solely with a view to obtaining compensation on refusal.

Two distinct advantages emerge immediately from the changes in procedure now envisaged. The first is that no development charges will be payable by owners in respect of "betterment" commenced on or after November 18, 1952—though development charges paid before that date will not be refunded. The second is that there will be an unrestricted market in land, for an owner will be able to offer his land for sale at whatever price he thinks he will be able to get for it.

But there will be no "golden opportunities" for speculators because, as more land becomes available for sale, so prices will be kept down. Moreover, attempts at speculation can be dealt with effectively by the local authorities through their powers of compulsory purchase.

Overseas Trade in December 1952

UNITED Kingdom exports in December 1952 were valued at £203.6 millions, against £207.2 millions in the preceding month. With re-exports at £7.4 millions and imports at £267.7 millions, the excess of imports (valued c.i.f.) over total exports (valued f.o.b.) was £56.5 millions. Although the total of the group containing chemicals, drugs, dyes, colours, etc., dropped below the £10 million level for the first time in 1952, the values of drugs, medicines and medicinal preparations at £2,479,960, and of proprietary medicines at £435,402, were up to the monthly average for the last half of the year. Hong Kong was again the largest single purchaser, taking drugs to the value of £247,696 and proprietary medicines, £29,522. All penicillin shipments showed an improvement over recent months—injections at £220,409 provided the highest figure for any month since April 1952; salts at £214,148 were the highest since May, and other penicillin preparations (ointments, tablets, lozenges, etc.), were at £51,959 since

March of that year. Antibiotics other than penicillin were valued at £292,269, about £42,000 less than in the previous month. Against the monthly averages for 1952, the December shipments of quinine at £14,804, insulin at £25,398 and antipaludics were all at disappointing levels. Sulphonamide exports were valued at £259,978, and ointments and liniments at £98,441.

Exports of perfumery and toilet preparations (excluding perfumed spirits, toilet soap and essential oils) were valued at £599,687 — the highest since January 1952. Of that total, cosmetics were worth £215,289, and dentifrices, £143,089 (the highest for sixteen months). Other exports included perfumed spirits, £49,779; essential oils, £40,558, and toilet soaps, £147,579. Malaya was the largest single purchaser of perfumery and toilet preparations taking shipments to the value of £91,594. British West Africa was next with purchases valued at £86,814. Powder bowls, powder puffs, etc., exported were valued at £13,952.

On the import side the value of essential oils increased from £192,687 in November to £347,294 of which 30 per cent. came from Italy. Menthol cost £18,197 and prepared medicines, £324,435, against £3,139 and £380,140 respectively in December 1951.

With the publication of the December 1952 trade figures, detailed figures for the whole year are now available. The values of imports, exports and re-exports of a number of important drugs and chemicals are set out on p. 103 in tabular form together with corresponding statistics for 1951.

A Service to Students

PHARMACEUTICAL students in colleges have for some time past had the opportunity of consulting *THE CHEMIST AND DRUGGIST* in their common rooms. Even the most conscientious student, however, may find his time largely taken up with text-book reading, and have little to spare for selecting from periodicals those items that may have a special value for him. That is especially true when the paragraphs appear among a wealth of matter directed primarily to subscribers engaged in a variety of occupations in pharmacy and the drug trade. Moreover, even given the time to spare, students are apt to find that the common-room copy of the *C. & D.* is already in use! Yet each week's issue contains many items that should not be missed if students are to emerge from their academic course as persons of immediate use to pharmacy and to the public.

To meet the needs of students and apprentices, therefore, the publishers of *THE CHEMIST AND DRUGGIST* are making available twice a term under the title "The Apprentice or Student" a selection of suitable items taken from the *C. & D.* of preceding weeks. By arrangement with the principals concerned, the publication is being sent, free of charge, to students (other than Intermediate course students) in recognised colleges of pharmacy. A copy will similarly be sent free to any person serving an apprenticeship under the regulations of the Pharmaceutical Society who makes application to this office to be put on the mailing list. The application should be accompanied by a letter from the apprentice-master or by some other evidence of apprentice status, giving commencing and finishing dates of apprenticeship. We hope that subscribers will bring this new service to the notice of any apprentice known to them.

Onward from Galen

A CURRENT CAUSERIE

FURTHER weight to the suggestion that a constituent of smoke may be at least partly the cause of lung cancer (*C. & D.*, January 3, p. 13) was given in a newspaper report that Dr. F. Beilschowsky (director of the Cancer Research Institute, Otago University, Dunedin, New Zealand), addressing a joint meeting of the International Union against Cancer and the International Cancer Research Commission in Bombay on December 31, 1952, said that statistics showed that while Britain and New Zealand had the same racial stock and cultural patterns and the consumption of tobacco per head was exactly the same, 5 lb. a year, yet the incidence of lung cancer was "definitely lower" in New Zealand than in Britain. In New Zealand 1.37 per cent. of all cancer cases were lung cancer, compared with 2.2 per cent. in Britain. Furthermore, the incidence of cancer among foreign-born New Zealanders was 40 per cent. greater than among those born there and "substantially greater" among town-dwellers living in the country. The density of population in Great Britain, the intensity of sunlight in New Zealand, and the loss of ultraviolet rays in Great Britain because of layers of smoke haze appeared to be factors accounting for the lower incidence of cancer of the lungs in New Zealand, and not smoking, he asserted.



ART as an aid to recovery was the subject of an article in the Annual Special Issue of the *C. & D.* in 1951. Perhaps it is a sign of progress in that direction that the twenty-second joint exhibition of the Ministry of Health Camera and Art Clubs, which was opened by the Minister of Health (Mr. Iain Macleod) on January 26, included a section devoted to pictures that were later to be given to hospitals. The Minister pointed out the value of pictures in wards, not only in creating a cheerful atmosphere (though it has to be mentioned that Dr. Kennedy, one of the donors, said that they had been given "with some trepidation") but in encouraging patients to take up art as a rehabilitatory exercise. By a coincidence, a report published that day by the Minister on the welfare of patients in hospital mentioned the provision of pictures as one of the means of promoting it.



SIGNS are evident that the true value of non-medical personnel in the medical services of modern fighting forces is beginning to be realised by the British authorities, and that an attempt is being made to equate value with rank. For it is announced that the head dentist in the Royal Air Force is henceforth to hold a higher rank, that of Air Vice-Marshal. That brings the R.A.F. into line with the other two services. Remarks of the Secretary of the Pharmaceutical Society at Liverpool recently (p. 104) give a glimmer of hope of a move in the right direction in the pharmaceutical sphere in the Army. The suggestions made would appear to bring the Army somewhat into line with the Royal Navy in this respect — a move that has already been commended in these columns.



CONCERN at the marked increase in the incidence of poliomyelitis since the end of the 1939-45 war (there were 680 cases in 1946 compared with 2,614 in 1951 and 2,959 in eight months of 1952) has led to the formation by the Infantile Paralysis Fellowship of the National Fund for Poliomyelitis Research. With the support of distinguished medical men and other interested people its aims are to promote and finance research into the causes, cure, prevention and treatment of poliomyelitis; and research into the methods of rehabilitation of those disabled from polio. The Fund will only spend money at the advice of the medical profession.

CORRESPONDENCE

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

CHELSEA OLD STUDENTS

SIR,—At a meeting held recently under the chairmanship of Dr. K. R. Capper the possibility of forming an active old students' branch of the Chelsea Pharmacy Association was discussed. It was decided that all old students of the school should be invited to attend a meeting at the Chelsea Polytechnic on February 19 at 7.30 p.m. The meeting is to appoint a committee and to decide on a suitable programme of activities. It is hoped that as many old students as possible will be able to come along and give their views.

SCHOOL OF PHARMACY,
CHELSEA POLYTECHNIC,
LONDON, S.W.3

DOUGLAS C. HARROD

THE JAM ON THE BREAD AND BUTTER

SIR,—As a representative for one of the leading perfumery houses calling upon chemists for the past twenty-four years, I cannot let the letter from your correspondent "Not so Rosy" in this week's issue of the *C. & D.* go unchallenged, especially as I find that the same attitude of mind is held by a number of my chemist friends. Surely the large departmental stores, multiple chemists and Woolworths would not so consistently make such a large feature of toiletries throughout the year if the margin of 20 per cent. gross were not a paying proposition. As any margin of profit means little until it is related to turnover, "Not so Rosy" should ask himself if he is getting his share of the £80 millions annual turnover that is done by the toilet trade in this country today. If he is, then he must find it a most profitable side to his business. After all, a chemist's "bread and butter" is derived from his pharmacy. Toilet products are the jam on that bread and butter. It might be of interest to your readers to know that a comparatively small shop in Scunthorpe, Lincs, selling toilet lines only, turned over more than £25,000 last year—that in a town with a population of only 33,761 and seventeen chemist shops to serve them!

NOTTINGHAM

T. F. HUGHES

OLD FRIENDS

SIR,—Allow me to offer you my most sincere congratulations upon the welcome return to the old familiar *C. & D.* size; upon the quality of the journal throughout, which more than upholds the best traditions of the past; and to wish you the greatest possible success in all your endeavours to give your subscribers and advertisers, as always, the best journal in the "trade."

It seems that in October 1859 subscribers could have the *C. & D.* for 2s. 6d. per annum—twelve monthly issues, thirty-six pages per issue. So far as I can judge from the reproduction of part of the cover of Vol. 1, No. 2, there were not more than two pages devoted to advertisers. Those were the days when a pound meant a golden sovereign, and income tax was a few pence in the £. Today the *C. & D.* is one-third literary pages, and two-thirds of each issue is taken by advertisers. By no means is this a reflection upon the editorial work of the paper; on the contrary, it is precisely because of the informative character of the editorial matter which goes into each issue that the circulation has steadily increased year by year and thereby attracted more and more advertisers in the chemical and pharmaceutical trades. I know that you have been through a period of paper rationing, which in turn has meant rationing of space for advertisers. The irksome restrictions imposed upon the community in varied forms of activity, are now passing and it was indeed a delight to me to see, upon my return from a visit to the Middle East, that on January 3, 1953, the *C. & D.* had reverted to quarto size, with which in my early youth and many years after I was so familiar. And how glad I am to see the retention, albeit in a portion only of the cover, of the *C. & D.* pink. It was in the format of thirty-three years ago that I knew the *C. & D.* best; but even earlier, when my father, Peter MacEwan, F.C.S., who died in 1916, was, and had been for many years, the Editor. How often, as a boy, did I with pride assist him in the "scissors and paste" task, for me, of compiling a

new edition of "Pharmaceutical Formulas" and "The Art of Dispensing," of which, as you well know, he was the original author, amongst many other works which I believe still continue to be in demand.

GERALD T. MACEWAN

LIQUIDS BY METRIC MEASURE

SIR,—When your correspondent Imperial states that the change from the Imperial to the Metric system will not "promote one scrap of business" (*C. & D.*, December 13, 1952), he obviously knows little about the export trade. As an Englishman who has been engaged in the ethical pharmaceutical business on the continent for the past sixteen years, I can assure him that the adoption of the metric system is an absolute *sine qua non*, if England hopes for an appreciable increase in her pharmaceutical exports to non-Anglosaxon countries. All European countries had their own stupid national systems of weights and measures, which they scrapped in favour of the metric system at the time of the French revolution or, in some cases, several decades later. We can hardly expect them to adopt ours more than one hundred years afterwards. If anyone interested in national psychology liked to follow the matter up, he would probably find that our objection to the metric system of measurement can be traced back to its connection with Napoleon.

BASELSTADT, SWITZERLAND

R. W. HILL

SIR,—I read with interest the announcement that, as from July 1 this year, the Association of British Pharmaceutical Industry will recommend that its members adopt the sale of liquids by volume and solids by weight, and that the metric system be adopted for both. Since I have an inquiring disposition, I sought to discover what prompted this Association to make such a momentous and far-reaching decision. I found that this was the outcome of a visit to America by a pharmaceutical productivity team. The report of this visit was given in a well-illustrated 69-page book. The team consisted of ten members representing five of the largest manufacturing pharmaceutical firms in this country, and their visit covered seventeen similar organisations in America. The report was said to be unanimous. My conclusions, based on a careful reading of the booklet, are that most, if not all, the firms visited were principally concerned with the manufacture and distribution of medical specialities, and that most of them manufactured a small range of products which were widely sold. This enabled the maker to produce large batches, and consequently long filling and packaging runs. Since galenicals are scarcely mentioned in this report, and wholesalers and retailers cursorily dismissed under the heading "Methods of Distribution," it follows that this report is primarily concerned with the manufacture and distribution of medical specialities by very large organisations. Since the larger British manufacturers had, many years ago, adopted most of the methods enumerated in the booklet, it would appear that most of the recommendations are superfluous. It seems peculiar that, out of the thirteen recommendations listed by the Team, only one has been selected for implementation by the Association, i.e., that dealing with the selling of liquids by volume instead of by weight, and that, it should be noted, is not meant (by implication) to apply to galenicals. It will be agreed by all that it is more economical to produce large batches and long filling runs by volume instead of by weight, but those who are concerned with the distribution of galenicals will find that to do so is rarely possible. Nowhere in the Report, nor in the recommendations of the team, is there any mention of the metric system. Indeed, it appears to be the current practice in America to sell in ounces, pounds and gallons, and not in litres and kilos. Finally, it is difficult to understand how the adoption of either of the recommendations of the Association will increase productivity in the slightest degree, or why the National Pharmaceutical Union and the Pharmaceutical Society deemed it unnecessary to consult its members on such an important issue.

GATESHEAD-ON-TYNE

MATTHEW ERRINGTON

Early Eighteenth Century prescriptions shed light on PHARMACY AND MEDICINE IN OLD EDINBURGH

RECENTLY a number of prescriptions, after probably 200 years' obscurity, came to light in an old property in the Lawnmarket, Edinburgh, during structural alterations. Around those documents, some of which are illustrated below, Mr. C. G. Drummond wove a story of "Pharmacy and Medicine in Old Edinburgh," in a lecture he gave to the Pharmaceutical Society's evening meeting in Edinburgh on January 21.

After sketching the background of the Edinburgh of the early eighteenth century, Mr. Drummond showed the following example of a contemporary prescription:—

Lady Catherine Hay,
R:—Tinct: rhei simpl. \mathfrak{z} iii.
Sig:—The tincture of Rhubarb, two spoonfuls
to be taken at bedtime.
Feb. 21, 1738. J.C.
To Mr. Drummond's shop.

The direction for dosage is "spoonfuls." A spoonful was considered to be half-an-ounce in the case of syrups, and three drachms for distilled preparations.

The prescriber is Dr. John Clerk, son of Robert Clerk, surgeon. He appears to have been a very active physician, and he played a big part in the revision of the Edinburgh Pharmacopœia for its second edition. He was a F.R.C.P.E. and in 1740 became the president of the college. John Clerk also received his M.B. at St. Andrew's University—without examination—in 1711.

For Mrs. Pringle
R^g. Pulv. Cort. Peruvian. \mathfrak{z} i.
Syr. Caryoph. q. s. ut f.
Elect. cuius capiat qua-
ter die quantitatem nucis
mæschatos.
28. Feb. 1733. J.C.

For Mrs. Pringle,
R:—Pulv. Cort. Peruvian \mathfrak{z} i. Syr. Caryoph.
q.s. et f. Elect. cuius capiat quater die
quantitatem nucis mæschatos.
28 Feb., 1739. J.P.

Make an electuary and take four times daily a piece the size of a nutmeg. Note the knowledge of Latin, and reflect on the fortune of my distinguished predecessor in the handwriting of his doctors. "J.P." appears to be John Pringle as he was the only Fellow of the College bearing these initials at that time. I have not been able to see his handwriting of that period but have seen his signature written in 1780. Comparisons, of course, are difficult, but there would appear to be no doubt that this is John Pringle. After a course at St. Andrews he studied medicine in the new Medical Faculty in Edinburgh in 1727. Like many others of the period he found his way to Leyden, there to sit under the famous Boerhaave, and to graduate M.D.

in 1730. After a further period of study in Paris he returned to Edinburgh to practise medicine, where he was appointed Professor of Moral Philosophy in 1734. This did not, however, interfere with his continuing to practise his calling. He was the first man to employ the term "antiseptic."

Peruvian bark is described in the Edinburgh Pharmacopœia, 1735 (Dispensatory) as "the bark of a certain tree growing in the West Indies, and called by the Spaniards the Fever-Tree." Cardinal de Luge, we are told, "first brought it to France in 1650, upon which it was then called by his name, but afterwards by the name of Jesuits' Powder; because they had the distributing thereof. Its use was now neglected till the year 1706 when Dr. Talbot again brought it upon the stage in France. The cures performed appeared so extra-ordinary to the King of France, the great Lewis XIV, that by a royal reward he procured the Doctor to publish his secret."

For Miss Peggie Drummond,

R:—Unguent, Opodeldoc Balsam Anodyn Batt at 3 p.m.
Sig:—The Balsam to be rubb'd on the part affected.
Repetetur Diaced ut prius. A.S.
Jany. 30, 1738.

Although I have been unable to see the handwriting of Andrew Sinclair, there would appear to be no doubt that this and several other prescriptions bearing these initials are in the handwriting of Professor Sinclair.

It may be mentioned that one of the prescriptions directs to Mr. Mowbray's shop and it may be assumed that Drummond was his successor.

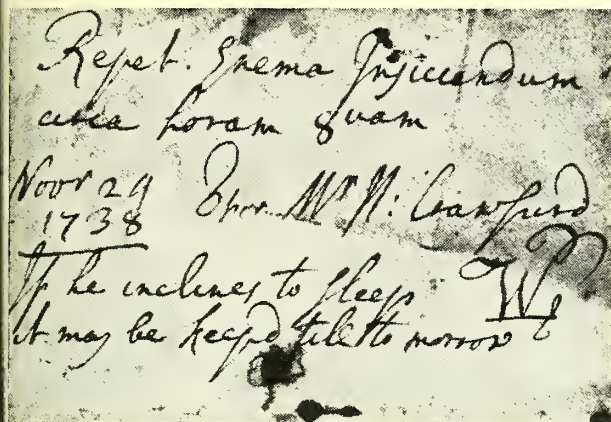
For the Lady Minto Elder.
R:—Castor Russ. gr. xv.
Sal. Vol. C.C. gr. vii.
Syrup Diaced, q.s.
f bolus vesperitinus.
Novr. 10, 1736. A.S.

This prescription contains Russian Castoreum, described as the inguinal glands of the beaver, and is our first incursion into the animal materia medica of the day.

4 Pulv. Ipecacuan gr. xxxvi
Sig: the vomite for Miss
Annie Lindsay to be taken to
morrow morning
Deferatur ad aëdes hac
nocte
To Mr Drummond's Shop
Aug. 17, 1737 J.C.

R:—Pulv. Ipecacuan. gr. xxxvi.
Sig:—The vomite for Miss Annie Lindsay, to be taken to-
morrow morning.
Deferatur ad aëdes hac nocte.
(Let it be delivered to the house this night.)
To Mr. Drummond's Shop.
Aug. 17, 1737. A.C.

A.C. may possibly have been Alexander Cunningham, F.R.C.P.E., but who poor Annie Lindsay was who was being subjected to such violent treatment, I have no means of knowing. Vomiting and purging occupied a large place in the treatment of the day, and in the insanitary conditions of the period, with contaminated food, it is readily understandable.



Repet. Enema Injeciandum.
circa horam 8vam.
for Mr. N. Crawford.

Nov. 29, 1738.

W.P.

If he inclines to sleep it may be kept till tomorrow.

No official enema is mentioned in the Dispensatory, but one is touched at the solicitude of the doctor for the comfort of his patient. W.P. was William Porterfield, who enjoyed the distinction of being the first Professor of Medicine in the University. One gathers that he was of an amiable disposition, for two years later he was replaced by a set of four professors, and there is no record of any ill-feeling despite the fact that the appointment of the newcomers was at their own request. The Minute Book of the Royal College of Physicians of 1750 shows his signature, confirming beyond all doubt that the initials here shown are his. May I say that every endeavour has been made to confirm from original documents and signatures the identity of these men, and where a statement is made that this is the prescription of Porterfield, or any other, no doubt exists.

Contacts with Leyden

The great reputation of the Dutch Medical School at Leyden was at this time attracting students from all over the world. It is necessary to recognise this in order to appreciate the combination of circumstances which led to the founding of the Edinburgh School, so soon to rival Leyden in its importance. Briefly the tale may be told of the famous Dr. Archibald Pitcairne who was appointed Professor in Leyden University, but whose goal was to see Edinburgh one day a great centre of medical culture. Pitcairne, a Fifer, and one of Edinburgh's characters in the late seventeenth century—doctor, Latin poet, wit, Jacobite and controversialist—made a stir on his return to Edinburgh after a short stay in Holland, and left the stamp of his character on those who followed. He died in 1713, but the picture would be incomplete without reference to him. His pupil and successor in Leyden was Boerhaave, who is still remembered as an outstanding teacher. This detail is essential to show the soil from which sprang the Edinburgh School, as St. Clair, Rutherford, Plummer and Innes, the four who replaced Porterfield, all sat under Boerhaave, returning to Edinburgh determined to set up a school worthy of the city. In this ambition they were aided and abetted by Monro, who had been through the hands of Boerhaave some years earlier, and who is generally given the credit of being the "father" of the Edinburgh Medical School.

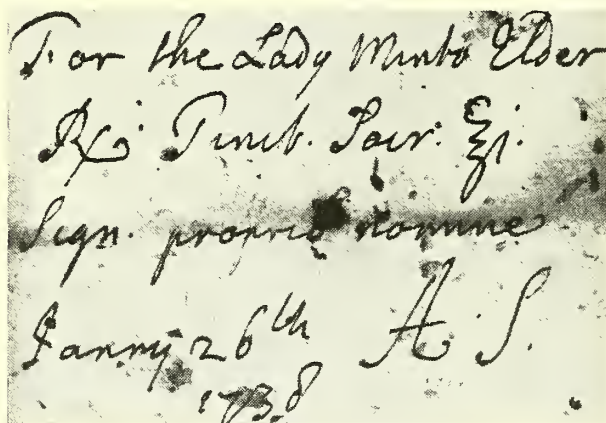
The next prescription is an example of beautiful handwriting, but is unfortunately incomplete. It is included because of a curio in the third item:

R:—Infusion Ipecacuanh: ʒi.
Sig:—The Vomite.
R:—Tinct: Rhubarb:
Tinct: Sacr. a ʒp.m.
Sig:—The Purgative.
R:—Sapen Venet.
Milliped. praep. a.
Gum. Ammon.

The first item—the Infusion—presents no difficulty, and No. 2 is rational; but Milliped. praep? What was that? "Prepared Millipedes, or Wood-Lice, are prepared by putting the bodies into a vessel and drying them with a very slow heat," says the Dispensatory. This is not the only preparation of millipedes (or "slaters"). There is also a vinum millipedatum, which is directed to be made thus:—"Take of live Millipedes 2 ounces; bruise them a little and pour thereon a pint of white Rhenish Wine; let them infuse for a night and afterwards press out the Wine."

R:—Aq. Rosas Rub.
Aq. Sperm. Ranar.
Acet. Rosar. aa ʒi.
Camphor.
Sacchar. Saturn aa ʒi.
m. f. s. a. frontal (to the forehead or temple).
Mr. Hugh Crawford. W.P.

In this prescription we are again confronted with strange names. Aq. Sperm. Ranar. (or Aqua Spermatis Ranarum) is frog-spawn water, and the Dispensatory gives the following directions for preparing it:—"Hang any quantity of frog-spawn in a bag so that the water may run from it . . . to every pint of liquor thus obtained, add a dram of roch-allum." This is stated to be a much better frog-spawn water than those ordered in other Dispensatories. "The addition of the alum, and the manner of preparation, by resolution, considerably increases its virtues; whereas that obtained by bare distillation gives us little more of the spawn than its useless phlegm. As it stands here it is designed as a cooler for external uses," we are told. The product masquerading under the title of Sacchar. Saturnum is sugar of lead.



For the Lady Minto Elder,
R:—Tinct. Sacr. ʒi.
Sign:—Proprio nomine
January 26, 1738.

A.S.

Sacred tincture is a tincture of hiera-picra, and is made by digesting the powder in Spanish wine along with cochineal, the improvement in colour from the use of cochineal being remarked upon. Hiera-picra powder of the time is composed mainly of aloes, with cardamon; galangal; (the root of an Asiatic plant possessed of an aromatic smell and spicy taste); rhubarb; snake-root and Zedoary, zedoary being the root of Curcuma Zedoaria, used as a tonic and perfume.

DR. DOUGLAS GUTHRIE (lecturer in the history of medicine, Edinburgh University), thanking Mr. Drummond for his address, said that Mr. Drummond's account was an event in the Pharmaceutical Society's history, and he hoped that the address would be published and receive the recognition it so well deserved.

Chemistry, Properties and Uses of SILICONES — 2

Silicone-treated glassware in pharmacy and medicine

By D. M. E. THOMAS, M.D.(LOND.), M.R.C.P. (ALBRIGHT & WILSON, LTD.).

IN recent years considerable interest has been shown throughout the British Empire and in the U.S.A. in the properties of glassware treated with silicone fluids in the field of medicine. The fact that, until recently, the substances have not been freely available in Great Britain has resulted in most of the published work on the subject appearing in American journals. From 1948, until 1950, extensive studies of Rowe and colleagues¹, Barondes and colleagues², Child and colleagues³, and Kern and colleagues⁴ have shown that the acute and chronic toxicity of two useful silicones is so low that it would be most unlikely that treating glass with these silicone fluids would be attended by any undesirable medical side effects.

Silicone fluids can produce a durable surface coating on glass, ceramics or metal. Although slightly greasy to the touch the coating is not sticky and therefore does not collect dust; it will tolerate repeated heating to 150°C.; will not be removed by organic solvents or acids and will remain unaffected by normal handling and cleaning with soaps or detergents, provided a thorough rinsing follows (as the persistence of a small amount of detergent will antagonise the properties of silicone coating). Prolonged treatment with hot caustic alkalis will remove the silicone surface.

Overage Eliminated

From a medical view-point, the important properties of a silicone-treated surface is its water repellency. The advantage in the case of vials or bottles containing aqueous injection solutions, for example, lies in the fact that almost the whole of the contents can be withdrawn by hypodermic syringe, "overage" being negligible. With some opaque suspensions such as procaine penicillin, the emulsion does not cloud the glass and the exact amount of liquid remaining in the bottle, even after shaking, is readily visible. This last phenomenon is enhanced by the discouragement that a silicone surface exerts on tendency to foam. In dispensing or laboratory work, the absolutely flat meniscus produced by a siliconed surface is often of value in accurate measurement, particularly when using a narrow burette.

In the clinical field an important aspect of silicone-treated surfaces lies in their power to delay blood-coagulation. The fact that unclotted blood that has had no chemical added and no constituent removed from it will remain in a fluid state for up to an hour in contact with these surfaces has opened up a new avenue of research into the problems of blood coagulation.

There are three methods of producing a durable surface of silicone on glass:—

(1). *Use of MS200 Fluid (a methyl polysiloxane)*. There are two stages:

(a) Application of the fluid. A thin film is applied, excess, indicated by an oily appearance, being undesirable. A dilute solution of the silicone is used. The article is dipped into or filled with a 2-3 per cent. solution of MS200/1000 cs. (centistokes) fluid in dry carbon tetrachloride. Excess solution is drained off and the solvent removed by heating in an air current for thirty minutes at 110°C.

(b) Baking the treated article. Baking is necessary to fix the silicone film and the effectiveness of the treatment depends upon correctness of the time and temperature as well as upon the original cleanliness and dryness of the article. For glass, the optimum baking conditions are two to three hours at 250-75°C.

(2). *Use of MS1107 Fluid (a methyl polysiloxane)*. As this fluid requires a lower curing temperature than MS200, it is more suitable for use on delicate apparatus. A 2-3 per cent. solution of MS1107 in carbon tetrachloride is used in the same manner as MS200, and is then "cured" for one to two hours at 100°C., fifteen minutes at 150°C., or five minutes at 200-50°C.

(3). *Use of chlorosilanes*. These chemicals have the advantage that heating is not required to fix the film. The article is dipped into a 2 per cent. solution of a chlorosilane in carbon tetrachloride, excess is drained off and the article is then dried in a current of warm air. Pure chlorosilanes are inflammable, toxic and corrosive in that, on hydrolysis, they release hydrochloric acid. Although in a 2 per cent. dilution dimethyldichlorosilane is not inflammable, its vapour when breathed for a long time will produce toxic symptoms. The solution must not be allowed to come into contact with anything that will be harmed by hydrochloric acid. MS200 and MS1107, however, are inert chemically and physiologically and can be handled and used with safety.

Syringe Lubrication

Silicone fluids have found increasing popularity as lubricants for hypodermic syringes and, in place of mineral oil as a sterilising medium. Their advantage over mineral oils for the purposes mentioned is that they do not char at sterilisation temperatures even when used repeatedly and that their viscosity varies comparatively slightly with temperature differences, becoming neither too viscid at low temperatures nor too fluid at high temperatures. The plunger of an all-glass syringe, for example, can be lubricated with MS550 (a phenyl methyl polysiloxane) and, after repeated autoclaving, it will present a perfectly clean appearance with no evidence of any charring and, even on the coldest day, it will have not the slightest tendency to clog and stick in the barrel.

In biochemistry it has been found that errors in micro-analysis due to molecules of the substance under test being adsorbed on to the surface of the glass container can be prevented by treating that glass with a silicone film. Aerobiologists have found that silicone grease provides a good medium to cause micro-organisms to adhere to Petri dishes at high altitudes, since the silicone does not freeze and viable organisms grow through it unimpeded. Silicone fluids also have a use in melting-point baths.

REFERENCES

I. Toxicology.

1. Rowe, V. K., Spencer, H. C., Bass, S. L., *J. Ind. Hyg. and Toxicol.* 1948, **30**, 332-52. *Arch. Ind. Hyg. and Occ. Med.*, 1950, **1**, 539-44.
2. Barondes, R., Judge, Towne, and Baxter, *Military Surgeon*, 1950, **106**, 379-87.
3. Child, Paquin, Deichmann, *Arch. Ind. Hyg. and Occ. Med.*, 1951, **3**, 479-82.
4. Kern, Anderson, Harris, *Am. Ph. Assn., Sci. Ed.*, 1949, **38**, 575-76.

II. Water-repellent Glassware.

- Feinmann, Sharp, Wilkinson, *B.M.J.*, 1952, **II**, 14-18.
 Jacques, L. B., Fidler, E., Felsted, E. T., Macdonald, A. G. *Canad. Med. Ass. Jour.*, 1946, **55**, 26-31.
 McCleary, Yarborough, Weidner, *Surgery*, 1952, **31**, 28-42.
 Marguiles, Barker, *Am. Jour. Med. Sci.*, 1949, **218**, 42-51.
 Moe, G. K., Malton, S. D., Rennick, B. R., Freyburger, W. A. *Jour. Pharm. and Exp. Ther.*, 1948, **94**, 319-27.
 Quick, Favre-Gilly, *Am. Jour. Physiol.*, 1949, **158**, 387-95.

Silicones in quantities suitable for medical and pharmaceutical use may be obtained from Hopkins & Williams, Ltd., Freshwater Road, Chadwell Heath, Essex.

HOSPITAL PHARMACY FORUM

A CHIEF PHARMACIST DISCUSSES THE HOSPITAL PHARMACY AS
TRAINING GROUND

THE arrangements at present in force for the practical training of pharmaceutical students cannot be regarded as satisfactory by any of the parties involved, be they teachers, apprentice-masters, students or prospective employers. The days when the most important part of the training was the three or four years' apprenticeship are long behind us, and we are still groping toward some satisfactory system that will meet the need for providing practical experience and fit reasonably with the academic curriculum. Already there have been rumblings from the School of Pharmacy in London suggesting that graduates specialising in pharmaceutical engineering science should be admitted to the register by some means other than the apprenticeship as we now know it. But if the engineer-pharmacist, why not also the specialist in organic chemistry or pharmacology? The problem then arises where to stop.

Perhaps there is a case to be made for a multiple register along the lines of that of the French *Ordre des Pharmaciens*, where the different categories are recognised in different lists. Whatever may come of this or other suggestions, it is generally agreed that pharmacists entering hospital or retail practice require some sort of preliminary experience of the type best provided in an apprenticeship. Doubtless the establishment of good degrees in pharmacy is of benefit to the profession and to the public good, and a supply of men of the highest calibre will be required to fill the higher posts where the duties call for academic and teaching ability in addition to the normal functions required in the day-to-day administration of a pharmacy department. Such persons, however, will always be a minority, and the main recruitment will be among pharmacists trained and examined under the Society's system. It is still too early to assess the value of the new Ph.C. diploma, but it is to be hoped that it will continue to represent a worthy degree of attainment and skill for the general practitioner of pharmacy, whether engaged in retail or hospital. In either case the problem of fitting in the apprenticeship has to be faced. Though the Society has now reverted to a former rule allowing apprenticeship to be served at a pre-collegiate level, the system of entry into colleges and the obtaining of educational grants favours the post-graduate apprenticeship. Thus each year a crop of students are applying to the hospitals for an apprenticeship at £300 per annum. Many have to be turned away because the establishment arrangements in the hospital do not permit the taking on of such supernumeraries. In some cases they are taken as a substitute for unobtainable qualified juniors—a most deplorable arrangement unfair to all concerned.

Need for Post-graduate Assistance

Yet there is a need for assistance in the hospitals which could be provided by post-graduate pupils if the supply and conditions could be satisfactorily arranged. There are in London a dozen teaching hospitals and many more non-teaching hospitals in categories 3, 4 and 5, having pharmacies sufficiently developed to provide adequate training for two students a year. The post-graduate apprenticeship could be made a period of great interest and value both to the apprentice-master and to the pupil. It does not seem fantastic to suggest that about a hundred pupils could be accommodated in the London area and a smaller number in the region of each of the provincial teaching centres. It is time the Pharmaceutical Society, the teachers in the colleges, the Ministry of Health and the Guild of Public Pharmacists came together to bring some sort of order to the present chaos. Safeguards are necessary, but the following points are suggested as worthy of fuller discussion:

(1) The apprentices should be supplementary to the establishment of pharmacists, but in some circumstances they could replace technical assistants or dispensers. Hospitals should be authorised to use money to provide the £300 p.a. allowance agreed in the Whitley Council Scales.

(2) The curriculum of activities to be covered during the apprenticeship should be so devised that they would fit into the normal routine of the department. It should be worked out in consultation with the board of examiners of the Society, and should include stock-keeping and records as well as the normal pharmaceutical techniques.

(3) The student should be required to submit to an examination at the end of apprenticeship. That examination should consist of a practical test in procedures common in hospital pharmacy and a *viva-voce* in which a general assessment could be made of the student's knowledge, including some therapeutics, and his personality could be generally appraised.

(4) The student would be required to keep a written record, duly inspected and signed by his apprentice-master from time to time, and that would be submitted for inspection at the examination. Entrants failing to pass would serve a further period of apprenticeship.

A thoroughly organised system of the kind here suggested would give status to student and apprentice-master, would introduce a larger number of students to hospital practice and might encourage some to look to this branch for a career. Those who decided to go to some other branch would find their hospital experience valuable in the branch of their choice.

A VALVELESS PUMP

A VALVELESS pump with applications in the handling of transfusion solutions, or for general liquid transfer in pharmaceutical or pathological departments of hospitals is described by Keating (*British Medical Journal*, 1950.1.94). It is manufactured by E. & J. Bax Engineering Co., Wheatley, Oxon. The principle is that a roller compresses a rubber



tube against the wall of the circular casing of the pump, and that, when moved by a crank, pushes liquid along the tube. The fluid therefore never comes into contact with the working parts of the pump. The model illustrated has two rollers. To set up the pump the rubber tube is merely placed in position round the inside of two-thirds of the casing (see picture) and the "lid" of the casing holding the rollers, themselves attached to a handle for manual operation, is then fitted in position with one knurled screw. The tightness with which the rollers squeeze the tube is readily adjustable by a knurled screw. The pump, which is 2½ in. in diameter by 1½ in. deep, can be screwed on to any upright fitting. It is of stainless metal and has an output (when the tube is not attached to a transfusion needle) of 1 pint in forty-seven seconds. The pressure obtainable is limited only by the strength of the tube walls.

LAUNDRY INTO LABORATORY

A conversion by Walsall hospital pharmacists and how it benefits the Walsall Hospitals Group

IN what was formerly a hospital laundry there has been set up within the National Health Service at Walsall the Walsall Hospitals Group pharmaceutical laboratory, an enterprise that has taken form in a unique way.



The laboratory building. Arrivals side is on the left, and dispatch side on the right.

It owes its existence, for example, to the fact that the Group Pharmacist (Mr. D. Evans, B.Pharm., Ph.C.), is also its Supplies Officer—the only pharmacist in the Service now to play the dual rôle. In 1950 it came to Mr. Evans' notice, as Supplies Officer, that the laundry attached to one of the four hospitals in the Group had been taken out of use. As pharmacist, he saw how suitable it would be for housing a pharmaceutical laboratory. He was able to convince the Group Hospital Committee of the financial soundness of providing the four hospitals with a manufacturing service, and in the early months of 1951 he received the Committee's sanction to convert the laundry into a laboratory.

The plan was to produce in the laboratory the whole of the transfusion solutions and the vast bulk of other injection solutions required for the Group's hospitals (total complement, 850 beds, plus large casualty and out-patient departments); and to make there also any tablets and galenicals within the scope of the laboratory when their manufacture could be shown to save money.

The conversion had to be—and was—carried out inexpensively. In making his plans Mr. Evans was assisted by Mr.

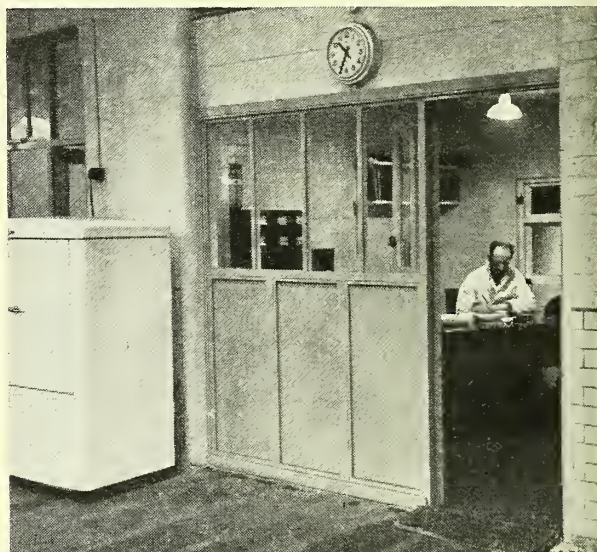


The spacious manufacturing hall, showing, illuminated at the far end, the aseptic dispensary.

Eric Dilkes, Ph.C., D.B.A., who had in the meantime been appointed chief pharmacist of the Walsall Manor Hos-

pital (formerly the hospitals of the town were staffed by Apothecaries' Hall dispensers). A survey showed that the building was well supplied with services, including steam from its own boiler, hot and cold water throughout, three-phase wiring and more than adequate drains. Gas was the only service that had to be laid on. A large bedding steriliser was readily transformed into an efficient autoclave for sterilising intravenous solutions, while the general structure of the original ironing room, screened from the steam of the main laundry, was practically what the pharmacists themselves would have designed for an aseptic dispensing room.

Finned steam heaters formerly used in the drying room now heat the laboratory, and the drying room has been converted into an office for Mr. Dilkes who, while remaining chief pharmacist of the Manor hospital, is pharmacist



The former drying room now houses the pharmacist's office.

also at the Group pharmaceutical laboratory. The former "dirty" and "clean" sides of the laundry are now reception and dispatch sides of the laboratory. With only £1,000 available, machinery and apparatus for the laboratory had to be chosen with special care, and the two pharmacists visited and studied the manufacturing departments of neighbouring hospitals before deciding on the details of the plant. The work of conversion was completed by April 1, 1952, and manufacturing started shortly afterwards.

Adaptable Layout

The laboratory building stands in the grounds of Goscoat Hospital (formerly an isolation hospital). It is a single-story building and the main laboratory or manufacturing hall is a room of size about 30 x 60 ft., well provided with skylights and wall windows. The reception door leads into a bay of the manufacturing hall in which are stored containers, and raw materials in uniform containers with uniform hand-printed labels.

The east half of the room is given over to wet processes, including container washing (using three massive laundry sinks equipped with hot and cold water); percolation; heating (in two steam-heated pans); evaporation, etc. Live steam is available on tap. Improvisation has reduced costs.

as in the use of large sweet jars for macerating relatively small quantities of drugs.

The west half of the hall, given over chiefly to dry processes, houses also the aseptic laboratory. On a bench are a power-driven homogeniser; a silent powered tablet machine; and a power mixer. Shafting connected with a motor housed outside the laboratory has been left in position in case of need.

At the western end of the laboratory is a steam-heated water still (capacity eight gallons an hour), which delivers into covered tin-lined copper storage tanks.

Aseptic Room

For the aseptic room along the west wall the main alteration to the original ironing room has been to erect another screen so as totally to enclose the room and to fit a double air-lock entrance door. Drugs and apparatus are passed into the room through a hatch with inner and outer doors, and preparations ready for sterilisation are passed out of the laboratory through a similar hatch on the opposite side. There are four vacuum points, reduced pressure being supplied by a vacuum pump operating from an electrical point formerly used for laundering irons. Other apparatus includes a hand ampoule-filling machine capable of handling 1,000 ampoules per hour. The pharmacist's policy is to supply as many solutions in ampoules as possible. The room is also provided with a combined filtering-and-filling apparatus composed of standard ground-glass jointed units for handling transfusion solutions and a penicillin dispensing screen, shortly to be fitted with an ultra-violet sterilising tube. The routine is to distil a batch of water; and to prepare, pack and sterilise within six hours the solutions made from it. Bottles already washed by the porter are twice rinsed with filtered freshly-distilled water before being filled. Small containers are sterilised on a bench equipped with a small autoclave, water bath, and hot-air oven fitted with an internal fan. A large refrigerator stands nearby. White gowns, masks and caps are worn in the aseptic room. A feature of the laboratory is its rounded easily cleaned



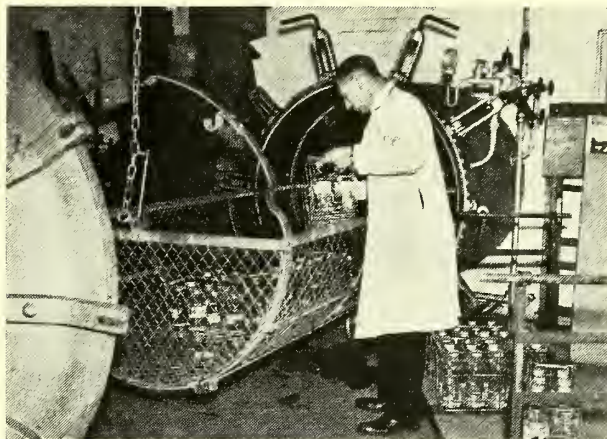
Vials for sterilisation are passed out of the aseptic dispensary through the air-lock hatch.

corners. A large exhaust fan can be called into service if needed.

Large containers, for example M.R.C. bottles, are sterilised in batches of 100 in the converted bedding autoclave already referred to, which is housed in a separate section of the laboratory building. The sterilised preparations are transferred into the dispatch and store room where they are labelled, marked with a printed batch number, packed into units of useful size, and stored to await dispatch. For double safety all intravenous solutions are subjected to a sterility test by the Group pathological laboratory, though they are sterilised by autoclaving. Galenicals made at the laboratory include ointments, kaolin poultice; cascara,

liquorice and iodine preparations; collut, thymol, co., stock mixtures; pastilles; tinctures; urine-test-solutions; syrups, etc.

The staff consists at present only of the chief pharmacist, a lady dispenser ("Hall") and a porter. The porter, apart from routine duties, has been trained to operate the



Bedding steriliser converted to intravenous solution autoclave.

large steam autoclave. The temperature of sterilisation is always checked by the inclusion of control tubes in each batch of bottles sterilised. The remainder of the pharmaceutical work is divided between the chief pharmacist and his assistant. There is need, however, for a technician to undertake routine work such as operating the ampoule-filling machine, etc.

Administration

In relation to the supplies section of the Walsall Hospital Group the pharmaceutical laboratory is a separate entity, and orders are sent to it just as they would be to commercial houses. Similarly, the preparations from the laboratory are charged out to the various hospitals at market price, and the "profit" made by the laboratory at the end of each year is to be computed by comparing the total value of goods dispatched with the value of the raw materials, adding overhead expenses. The "profit" is then to be distributed to each hospital in proportion to the value of preparations which each has received. Requisitions for raw materials are made by the Laboratory chief pharmacist through the Group supplies office in duplicate; the supplies office places the order and sends the laboratory pharmacist a copy so that he is kept informed of what is happening. He, in turn, enters details of the orders on file-cards. When the raw materials are processed in the laboratory, batches of the various preparations are made from formulas filed on cards and the number of batches of each preparation is recorded on file-cards for accounting purposes. Each week the laboratory receives an order from the supplies office giving details of the preparations required by the various hospitals. The details are in turn entered on cards, and finally on the invoices to the hospitals, so that the history of an order is available for inspection at any stage. The invoices are made out in triplicate, two of them going to the finance department after being passed by the supplies officer. The extension of the price column is done by the finance department. Until another pharmacist is appointed at the Manor hospital Mr. Dilkes has to devote proportionately more attention to that hospital and less to the laboratory. He starts each day's work at the laboratory, attends the Manor hospital during the middle of the day, and returns to the laboratory to supervise the completion of the manufacturing processes during the afternoon.

Already the laboratory is manufacturing many more preparations than were originally planned, and to date there is no doubt that it is profit making. So it must remain to avoid the threat of being closed down.

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

LONDON, JANUARY 28: Since last week's announcement that the price of domestic CITRIC ACID had been reduced, a minor price battle appears to have developed with a further reduction of 16s. per cwt. being made. At 180s. per cwt. for 5-cwt. lots domestic acid appears to be about 4s. per lb. lower than the minimum 1-ton rate for Continental material. PENICILLIN G, STREPTOMYCIN and DIHYDROSTREPTOMYCIN are being reduced on February 2.

The technical, B.S.S., and solvent ETHERS were reduced by a half-penny per lb. throughout the schedules on January 26. A small reduction has also been made in technical ACETONE, but the B.P. quality is unaltered.

A small volume of general business was conducted in the CRUDE DRUGS market during the week. Price changes were few. They included a reduction of 2s. 6d. per cwt. in the prices of whole CASSIA BARK, African GINGER and GUM ACACIA. Sun-dried PAPAIN was reduced by 2s. 6d. per lb. Alexandria SENNA PODS of top quality are stated to be in short supply on the spot, but there are good stocks of pods offering at about 4s. 6d. per lb. The market for White PEPPER was stronger in the early part of the week, but prices slipped back to former levels towards the end. No business was reported in black Malabar pepper. CORIANDER SEEDS on the spot were still offered at between 34s. and 35s. per cwt., duty paid, for Moroccan which is under the replacement cost of 35s., c.i.f. FENUGREEK continued firm. The prices of most ESSENTIAL OILS were unchanged and little business was reported. Imports during the month of December 1952 showed a substantial rise over the preceding five months (see page 109) due no doubt to importers taking up their quotas before the end of the period. By far the greater proportion came from non-sterling areas.

No change is to be made by the Ministry of Food in the prices of unrefined oils and fats and technical animal fats allocated to primary wholesalers and large trade users during the four-week period ending February 21 nor in those of refined oils and imported edible animal fats allocated during the period ending March 21.

EXCHANGE RATES ON LONDON

At the opening on Wednesday

*Alexandria	Piastres to £	97½-97½
Amsterdam	Florins to £	10.56-10.72
*Bombay	Shillings to rupee	1/5½-1/6½
Brussels	Francs to £	139-141
Copenhagen	Kronor to £	19.20-19.48
Dutch West Indies	Florins to £	5.24-5.32
*Hong Kong	Shillings to \$	1/2½-1/3½
*Karachi	Shillings to rupee	2/1½-2/1½
Lisbon	Escudos to £	79.90-81.10
*Montreal	Dollars to £	2.73½-2.73½
New York	Dollars to £	2.78-2.82
Oslo	Kronor to £	19.85-20.15
Paris	Francs to £	972-988
Stockholm	Kronor to £	14.37-14.60
*Singapore	Shillings to £	2/3½-2/4½
Zurich	Francs to £	12.14-12.35

*Free market rates; remainder Bank of England.

UNITED STATES DRUG AND CHEMICAL REPORT

NEW YORK, JANUARY 27: The movement of HEAVY CHEMICALS tended toward expansion in American markets last week, with the result that January shipments now compare favourably with the previous month. Spot business in ALCOHOL continues good despite the advance in price of 15 cents per gall. which producers put into effect at the beginning of the year. A better tone is reported to be prevailing in MENTHOL, although actual prices have not improved. Higher per lb. are CASCARA SAGRADA at 38 cents, up 4 cents; and CHAMOMILE FLOWERS, with the Roman type at \$1.25 (up 25 cents), and the Hungarian type, 75 cents (10 cents).

Pharmaceutical Chemicals

ACETONE, B.S.S.—Dum lots are from £108 per ton. B.P. is unchanged at 1s. 5d. per lb. for 6-gall. lots.

BISMUTH SALTS.—The following are the prices (per lb.) in largest bulk packages:—

	1-cwt.	28-lb.	7-lb.
	s. d.	s. d.	s. d.
CARBONATE ..	24 5	24 8	28 6
SALICYLATE ..	23 2	23 5	27 1
SUBGALLATE ..	22 2	22 5	25 1
SUBNITRATE ..	21 8	21 11	25 4

2-cwt. lots are 3d. per lb. less than the 1-cwt. rates. Rates of other salts are:—CITRATE, B.P.C., 22s. 11d.; NITRATE, cryst., 14s. 11d.; OXIDE, 28s.; OXYCHLORIDE, 28s. 1d.; OXYDODGALLATE, 29s., and TRIBROMPHENATE, B.P.C., 27s.—all 1-cwt. lots.

CAFFEINE. — Rates (per lb.) are as follows:—

	1-cwt.	28-lb.	7-lb.
	s. d.	s. d.	s. d.
ALKALOID, B.P. ..	22 0	23 0	24 0
ALKALOID ANHYDROUS ..	22 6	23 6	24 6
CITRATE, B.P.C. ..	15 0	16 0	17 0
and SODIUM BENZOATE, B.P. ..	16 0	17 0	18 0
and SODIUM SALICYLATE, B.P.C. ..	17 0	18 0	19 0
SODIUM IODIDE ..	28 0	29 0	30 0

Lower quotations for 5-cwt. lots.

CALCIUM CHLORIDE. — B.P. crystals are 1s. 0½d. per lb. in 1-cwt. lots and exsiccated, 9½d.

CALCIUM SUCCINATE. — Quotations are from 10s. 6d. to 12s. 6d. per lb., as to quantity. SUCCINIC ACID is from 10s. 3d. to 12s. 3d. per lb.

CHLORAL HYDRATE.—In 1-cwt. lots the price is from 3s. 10d. per lb. as to holder.

CHLOROBUTOL.—28-lb. lots are at the rate of 13s. 6d. per lb.

CHLOROCRESOL.—Pharmaceutical quality is quoted at 6s. per lb., in 1-cwt. drums.

CHLOROXYLENOL.—B.P. quality is quoted at 6s. 9d. per lb. for 1-cwt. lots.

CINCHOPHEN.—1-cwt. lots are quoted at 24s. 9d. per lb., with smaller quantities up to 27s. 9d. per lb.

CITRIC ACID. — Lower, British makers now quote 185s. per cwt. for 1-4-cwt. lots and 180s. per cwt. for 5-cwt.

COCAINE. — Rates per oz. are as follows: ALKALOID and SALICYLATE, bottles ¼-oz., 27s. each; ½-oz., 53s. each; 1-oz., 104s.; 4-oz., 103s.; 8-oz., 102s.; 16-oz., 101s.; tins, 25-oz., 100s.; HYDROCHLORIDE and NITRATE, bottles, ¼-oz., 24s. 6d. each; ½-oz., 48s. each; 1-oz., 94s.; 4-oz., 93s. 3d.; 8-oz., 92s. 3d.; 16-oz., 91s. 6d.; tins, 25-oz., 90s. 6d.

CREOSOTE.—B.P. quality, ex beechwood, is quoted at from 6s. 9d. to 7s. 6d. per lb.

DICOPHANE (DDT). — Prices are from 3s. 6d. to 4s. 3d. per lb. as to quantity.

DIPHENAN.—Prices range from 58s. to 67s. per lb., according to quantity.

ETHER.—Prices (per lb.) in winchesters are as follows:—TECHNICAL, B.S.S. and SOLVENT, 5-cwt., 2s. 4d.; 10-cwt., 2s. 3d. ANÆSTHETIC, B.P., 5-cwt., 3s. 9d.; 10-cwt., 3s. 8d. In drums prices are 2d. per lb. less than above.

ERGOMETRINE.—The MALEATE, B.P., is £45 per gm. and TARTRATE, £41 15s. per gm.

FERROUS SULPHATE.—1-cwt. lots of B.P. crystals are 36s. 6d. and 5-cwt., 35s. 6d. per cwt.; granulated, 2s. 6d. per cwt. extra. EXSICCATED is 92s. 6d. and 90s. respectively.

GLYCEROPHOSPHATES.—Rates per lb. for 1-cwt. lots are as follows:—ACID, 20 per cent., 5s. 9d.; CALCIUM, soluble, B.P.C., 12s. 3d.; IRON, B.P.C., scale, 17s. 3d. and powder, 16s. 3d.; MAGNESIUM, soluble, B.P.C., 15s. 3d. and insoluble, 7s. 6d.; MANGANESE, 28s. 9d.; POTASSIUM, 50 per cent., 4s. 3d. and 75 per cent., 6s. 3d. SODIUM, 50 per cent., 3s. 3d. and 75 per cent., 4s. 9d.

HYDROGEN PEROXIDE.—20 vols. is 4s. 2d. per gall. for carboy lots.

HYDROQUINONE.—Quotations for 1-cwt. lots are 11s. per lb. For smaller quantities viz., 28-lb., 11s. 3d.; 14-lb., 12s.; 7-lb., 12s. 6d.

HYOSCINE HYDROBROMIDE.—1-oz. lots are 95s. for British material.

MAGNESIUM HYDROXIDE, B.P.C. — Makers' price for 1-cwt. lots is 3s. 5d. per lb. and 1-ton, 3s. 2d. per lb.

MENAPHTHENE. — B.P. is £14 per kilo. Water-soluble (menadione sodium bisulphate, U.S.P.), £19 per kilo.

PANCREATIN. — 1-cwt. lots, B.P., is now 8s. 6d. per lb. and U.S.P., 10s. 6d.

PARALDEHYDE. — Carboy lots are about 2s. 2½d. per lb.

PHENYLACETIC ACID. — In 1-ton lots the price is now 5s. 6d. per lb.; 1-cwt., 6s. per lb. Perfumery grade, re-crystallised is from 8s. 6d. to 11s. 6d. per lb., as to quantity.

PHENYTOIN SODIUM. — Quotations for 1-cwt. lots are 27s. 6d. per lb.

PHYSOSTIGMINE.—Rates per oz. for 25-oz. lots are as follows: ALKALOID, 157s. 6d.; SALICYLATE, B.P., 118s.; SULPHATE, B.P.C., 137s. 3d.

PILOCARPINE.—In 25-oz. lots prices are: ALKALOID, 56s. per oz.; HYDROCHLORIDE, 46s. per oz.; NITRATE, 42s. per oz.

PIPERAZINE. — Quotations for HYDRATE are from 37s. 6d. per lb.

POTASH, SULPHURATED. — B.P.C. lump is 2s. 3d. per lb. for 1-cwt. lots.

POTASSIUM BROMATE.—In 5-cwt. lots, 7s. per lb. In small quantities the prices range up to 8s. 9d. per lb.

ZINC SULPHATE.—B.P. in 1-cwt. lots is quoted at 1s. 9d. per lb.; 28-lb., 2s. 1d.

Crude Drugs

ACONITE.—Spanish *napellus* is 3s. 6d. per lb., duty paid, ex wharf.

AGAR.—Kobé No. 1 on the spot is now about 17s. per lb.

ALOE.—Prime Cape is unchanged forward at about 157s. 6d. per cwt., c.i.f., spot is offered at 175s. Curaçao is 340s. per cwt., landed terms.

ANTIMONY.—English, 99.6 per cent. £237 10s.; 99 per cent., £225 per ton.

ASAFETIDA.—Persian block is £15 per cwt., duty paid.

BALSAMS.—*Canada*: Spot is about 27s. per lb. for clear bright, paper - filtered. *Copaiba*: Para, spot is 15s. to 15s. 6d. per lb., duty paid. *Peru* is in limited supply at from 11s. to 11s. 6d. per lb., duty paid. *Tolu* (genuine as imported) on the spot is 21s. 6d. per lb., in original cases and for shipment, 18s., c.i.f.

CASCARA SAGRADA.—American bark, 1951 peel, is about 315s. per cwt., duty paid, and new crop, for shipment, 295s., c.i.f.

CASCARILLA.—Siftings are now 1s. 3d. per lb., on the spot.

CASSIA BARK.—Whole on the spot is 100s. per cwt. in bond.

CHERRY BARK.—Thin natural is from 1s. 10d. per lb., duty paid, and rossed, 2s. 2d. on the spot.

CHILLIES.—Sierra Leone on the spot are 160s. per cwt.; for shipment, 135s., c.i.f., nominal; Mombasa, 200s., c.i.f., and 210s., spot.

CINNAMON.—Ceylon for shipment (c.i.f.), OOOO, 2s. 4d.; OOO, 2s. 3d.; OO, 2s. 2½d.; O, 2s. 1½d.; firsts, 1s. 8½d.; seconds, 1s. 7½d.; thirds, 1s. 7½d.; quillings, 1s. 3½d.; featherings, 10½d.; chips, 6½d. per lb.

CLOVES.—Firm. Offers of Zanzibar on the spot are 11s. 6d. per lb. and 10s. 7½d. c.i.f., for shipment.

COCHINEAL.—Black-brilliant is from 8s. to 8s. 3d. per lb., and silver grey, 7s. 3d., spot.

COCILLANA.—Bark is 1s. 9d. per lb., spot.

GINGER.—African on the spot is 82s. 6d. per cwt., and forward at 75s., c.i.f. Spot quotations for Jamaican are about 112s. 6d. for No. 3.

GUM ACACIA.—Kordofan cleaned sorts on the spot are 90s. per cwt.; new-crop, February-March shipment, 81s., c.i.f.

HONEY.—Spot supplies of Australian are from 100s. to 115s. per cwt., as to quantity; Jamaican is scarce at from 105s. to 125s.; Argentine material is also scarce at from 120s. to 125s.

IPECACUANHA.—Nicaraguan for shipment is steady at 40s. per lb., c.i.f., and Colombian, 38s. 6d., c.i.f. Spot quotations are: Nicaraguan, 44s., Colombian, 41s.

KARAYA.—No. 1 gum on the spot is easier at 200s. per cwt.; No. 2 is unchanged at 165s.; No. 1, for shipment, is 185s., c.i.f.

KOLA NUTS.—African halves are available on the spot at 4½d. per lb., 3½d., c.i.f., for shipment.

LIQUORICE.—Natural whole root, spot: Anatolian, 55s. per cwt.; Russian, 50s.; Syrian, 40s. to 42s. 6d. Block juice quotations are from 180s. upwards, according to holder, duty paid. Turkish stick is 240s. per cwt., duty paid; Italian stick, 475s. per cwt., duty paid.

LOBELIA.—Herb is 3s. 6d. per lb., spot. MACE.—West Indian pale blade is 7s. 9d. per lb., for shipment, 6s. 9d., c.i.f.

MASTIC.—Tears (No. 2) are 11s. 9d. per lb., nominal on the spot.

MENTHOL.—Brazilian is 43s. per lb. Chinese, 57s. 6d., both duty paid on the

spot. Shipment: Brazilian, 41s.; Chinese, 50s., both c.i.f.

PAPAIN.—East African, grade 1 is 38s. per lb.; Ceylon white, 40s. and sun-dried, 32s. 6d. on the spot.

PEPPER.—White Sarawak on the spot is offered at 10s. 4½d. per lb., ex wharf, and January-shipment at 10s., c.i.f. Black Malabar, 1,030s. per cwt., spot, and 880s., c.i.f. Black Sarawak is 9s. to 9s. 3d. per lb., on the spot.

PODOPHYLLUM.—*Emodi* root on the spot is 200s. per cwt., nominal. *Peltatum*, 336s.

SEEDS.—ANISE.—Unchanged. Turkish, 145s. per cwt., duty paid, and 132s. 6d., in bond; Cyprus, 145s., duty free, all spot London. CARAWAY.—Dutch are easier, 90s. per cwt., duty paid in London. CELERY.—Indian offering at 1s. 10½d. per lb., spot London. CORIANDER.—Spot, Morocco still offering at from 34s. to 35s. per cwt., duty paid; January-February shipment is quoted at 35s., c.i.f. English is 70s. CUMIN.—Sellers on spot unchanged at: Cyprus, 145s. per cwt.; Indian, 180s.; Malta, 170s.; Morocco, 155s., duty paid. DILL.—Indian offering at 80s. per cwt., spot London. FENNEL.—Spot supplies are short. Indian, 220s. per cwt.; mid-European, 200s., duty paid. FENUGREEK.—Market continues firm. Morocco, 44s. per cwt., duty paid, spot London or Liverpool. MUSTARD.—English, 75s. to 85s. per cwt., according to quality.

SENEGA.—Spot supplies are from 14s. 3d. to 14s. 6d. per lb. as to holder.

SHELLAC.—Spot quotations are:—F.O.T.N., pure, 175s.; F.O. standard No. 1, 190s.; fine orange, 215s. to 265s. per cwt., ex-London warehouse.

SENNA.—*Tinnevely* LEAVES: Prime No. 1 on the spot is 1s. 6d. per lb.; Prime No. 2, 1s. 3d.; Prime No. 3, 11d.; f.a.q., 10d. PODS, f.a.q., from 1s. 2d. to 1s. 4d.; hand-picked range from 2s. 6d. to 3s., ex wharf. *Alexandria* PODS, manufacturing, 1s. 10d. to 2s. 3d.; hand-picked, 3s. to 6s.

TURMERIC.—Madras finger on the spot is 65s. per cwt., and 57s. 6d., c.i.f., for new-crop.

VALERIAN.—Indian is offered at 135s. to 137s. 6d. per cwt., spot. Belgian at about 200s.

WAXES.—BEES.—Dar-es-Salaam, spot, 435s. per cwt., March - April shipment, 410s., c.i.f. Sudanese and Abyssinian, 365s., c.i.f. CANDELLILLA.—Spot is 645s. per cwt. CARNAUBA.—Prime yellow, spot, 1,220s. per cwt.; shipment, 1,200s., c.i.f.; fatty grey, spot, 935s. per cwt., 930s., c.i.f. MONTAN.—Reibek crude on the spot is 135s. per cwt. OURICURI.—Spot, 0.5 per cent. impurities, 690s. per cwt. SPERMACELE.—Case lots are 2s. per lb.

Essential and Expressed Oils

ANISE.—Spot supplies are offered at from 7s. per lb. for original drums, and for shipment, 6s. 7½d., c.i.f.

CARDAMOM.—Offers are from 275s. to 280s. per lb.

CEDARWOOD.—Spot quotations for African are from 5s. per lb.

CHENOPODIUM.—1-cwt. lots are 67s. to 67s. 6d. per lb.

CITRONELLA.—Spot prices for original drums are: Ceylon, 3s. 6d. per lb.; Formosa, 3s. 8d. in bond; Java, 4s. in bond. Forward: Ceylon, 3s. 3d.; Formosa, 3s. 5d., and Java, 3s. 10½d., all c.i.f., January shipment.

CORIANDER.—Russian-seed oil is 160s. per lb.

CUBE.—English-distilled is offered at from 50s. to 55s. per lb. Imported is quoted at 60s. per lb.

DILL.—English-distilled oil is quoted at about 65s. per lb. for B.P. quality. Imported oils are offered at 40s. per lb. with East Indian at 30s., spot.

FENNEL.—Spanish sweet on the spot is quoted at from 8s. 6d. to 9s. per lb.

GERANIUM.—Bourbon on the spot is from 70s. per lb.

HYDNOCARPUS.—Spot is offered at 2s. 2d. per lb.

LAVENDER.—French, 40-42 per cent. linalol on the spot is from 38s. per lb.

LAVENDER SPIKE.—Spanish is about 11s. per lb., duty paid.

LIME.—Supplies of West Indian distilled are offered at 45s. per lb., on the spot.

NUTMEG.—English-distilled oil is about 37s. per lb. Imported oil (B.P.) is offered at 25s. per lb., duty paid, for drum lots.

ORANGE.—Spot offers for sweet range from 16s. 6d. per lb., as to origin.

ORIGANUM.—In original containers the price is 14s. per lb.

PALMAROSA.—East Indian is from 45s. to 46s. per lb., on the spot.

PATCHOULI.—Seychelles on the spot is offered at 44s. 6d. per lb. and Penang at 50s. Forward offers of Penang at 46s., c.i.f.

ROSEMARY.—Spanish oil on the spot is from 5s. 9d. per lb., duty paid, for B.P.

SAGE.—Spanish is offered at from 8s. 6d. to 9s. 6d. per lb., spot.

SASSAFRAS.—Brazilian natural is offering at 5s. 6d. per lb., duty paid, and 4s. 9d., c.i.f.

SPEARMINT.—Offers are from 62s. 6d. to 70s. per lb., as to holder.

VETIVERT.—Bourbon in original drums on the spot is about 130s. per lb.

C. & D. RETAIL AND DISPENSING PRICE LIST
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BANDAGES (individually wrapped)	1 in. s. d.	1½ in. s. d.	2 in. s. d.	2½ in. s. d.	3 in. s. d.	3½ in. s. d.	4 in. s. d.	6 in. s. d.
White open weave, B.P.C., 4 yd.	—	0 5½	0 7	0 8½	0 10	—	—	—
White open weave, B.P.C., unwrapped, 6 yd.	0 5	0 7	0 9	0 11	1 1	—	1 7	2 2
Domette, B.P.C., 6 yd.	—	—	—	3 4	4 0	—	5 2	7 10
Flannel, B.P.C., 4 yd.	—	—	—	3 10	4 7	—	6 1	9 1
	1 oz. 1 yd.	2 oz. 2 yd.	3 oz. 3 yd.	4 oz. 4 yd.	6 oz. 6 yd.	8 oz. 8 yd.	1 lb.	
WOOL (not interleaved):—								
Absorbent cotton, B.P.C.	0 8	1 2½	—	1 9	—	3 3½	6 3½	
„ „ hospital	—	—	—	1 3	—	2 4	4 5	
LINTS:—								
Absorbent, B.P.C.	1 0½	2 0	—	2 11	—	5 8	11 0	
Boric, B.P.C.	No. 2 1 1	No. 4 1 11	—	No. 8 3 0	—	No. 16 5 9	—	
GAUZE:—								
Absorbent, B.P.C., 36 in. wide (sterilised), ½ yd. 7d.	0 11	—	2 2	—	4 0	—	—	

EXAMINATION RESULTS

THE following candidates satisfied the examiners in the Qualifying examination of the Pharmaceutical Society in December 1952:—

ENGLAND AND WALES

Adams, A. A. T. B. S., Sierra Leone
 Allenby, John D., Darlington
 Ashworth, D. L., Ashton-under-Lyne
 Bakhshi, Harsaran S., Hendon
 Barlow, Rachel M., Southport
 Barnes, Bruce R., Esher
 Barratt, Margaret, Cardiff
 Bell, Archibald, Ilford
 Bentley, Sydney C., Stoke Newington
 Brand, Peter N., Bournemouth
 Briggs, Leonard, Shipley
 Bucci, Miriam F., Brixton
 Butler, Edwin H., Exeter
 Carr, David G., Crowthorne
 Cherryman, Ethel W., Acocks Green
 Cheuk, Chuen C., Hong Kong
 Clinton, Alexander R., London
 Cole, Kenneth J., Rhondda
 Collier, Peter J., Torquay
 Coutts, Mary J., Leicester
 Cowell, David B., Hornchurch
 Cowrie, Diana M., Aberystwyth
 Cox, Margaret J., London
 Crowe, Donald K., Wolverhampton
 Cuthbert, Alan W., Peterborough
 Cymbalist, Michael A., Stoke Newington
 D'arcy, Patrick F., Stoke Newington
 Davies, Thomas G., Llanarth
 Dawson, Brian, Thirsk
 Dobie, Humphrey S., Maryport
 Dowling, Mary W., Brighton
 Dracott, Edward J., Brighton
 Dyer, Anthony W., Leicester
 Edwards, David E., Southall
 Evans, John L., Swindon
 Facey, Cecil A. L., Kingston, Jamaica
 Fell, Christopher J., Bishop's Stortford
 Fetto, David A., Birmingham
 Fuller, Katherine S., Trowbridge
 Gallagher, John T., Preston
 Greenleaf, Joan C. V., Burgess Hill
 Grey, Brian T. G., Barry
 Grundy, James A., Macclesfield
 Hall, Arthur T., Porthcawl
 Hanson, John K., Newark
 Harman, John R., Wembley
 Hatten, John D. F., Torquay
 Hayward, Colin J., Harrow
 Heaton, Harold, Wakefield
 Heaviside, Joan B., Birmingham
 Hewell, Robert J., Horsham
 Hooper, Beryl J., Manchester
 Housley, David S., Spondon
 Howarth, Brian, Bolton
 Hudson, Harry E., Stockport
 Hunter, Thomas W., Leicester
 Jackson, Evelyn L., Southgate
 James, Norman, Barry
 Jenkins, John R., Loughor
 Jones, Janet O., Wolverhampton
 Keene, Donald G. S., London
 Keene, James G. W., London
 Kirby, Margaret E. (Mrs.), Wimbledon
 Ladd, Margaret E., Cardiff
 Leaver, John F., Cheltenham
 Levinson, Ivan J., Cardiff
 Manning, Glyn O., Newport, Mon.
 Medwid, Eulalia (Mrs.), Huddersfield
 Merrick, Robert W., Tamworth
 Morris, Judith E. E., Victoria
 Morris, Jean R., London
 Munro, Michael H., Bristol
 Nelson, Alun A., London
 Nickels, Barrie D., Torquay
 Paisley, George F., Cardiff
 Palmer, Keith H., Nottingham
 Peregrine, David B., Cardiff
 Pexton, Ruth E., London
 Phillips, Bernard J., Shanklin
 Pope, William C., Bedford
 Pretty, Joyce H., Rossendale
 Ratcliffe, Colin E., Wembley
 Raymond, Victor E., Luton
 Rees, Freddie B., Llanybyther
 Rees, John, Manchester
 Reid, Evelyn M. R., Mitcham

Ritchie, Alun R., Dunmow
 Rogers, James L., Plymouth
 Rubins, Warren A., Prestwich
 Russell, Douglas W., Colchester
 Saville, Gillian M., Leeds
 Sheril, Cyril, Ilford
 Smith, Betty (Mrs.), Halifax
 Smith, Geoffrey H., Catford
 Sohn, Irvine B., Upton Manor
 Spencer-Jones, Barbara, Cardiff
 Storey, Mary, Bedford
 Tabakof, Arnold, London
 Taylor, Peter E., Cardiff
 Thomas, Barbara, Burnley
 Thomas, Melba E., Cardiff
 Thornton, M. B., (Mrs.), Northwood
 Thorogood, David R. H., Hounslow
 Tipping, Winifred M. I., Salford
 Tomsett, Osborne W., Eastbourne
 Waite, John T., Stoke-on-Trent
 Wallace, Derek, Bolton
 Washington, David B., Sutton Coldfield
 Willows, Michael G., Mill Hill
 Winer, Murray, Swansea
 Worby, Robert G., Woodford Green
 Wrigley, Alan C., London

SCOTLAND

Anderson, Janetta C., Glasgow
 Anderson, William, Edinburgh
 Anderton, Barbara, Morecambe
 Backhouse, Bryan M., Bradford
 Bamforth, Ronald, Beamish
 Barlow, Roy, Whitefield
 Beckett, Barbara M., Stoke-on-Trent
 Benton, Enid, Bolton
 Bowen, Gwladys M., Aberdeen
 Briggs, John, Ossett
 Brook, Wendy M., Manchester
 Burks, Freda M., Leeds
 Catto, Myrtle C., Harrow
 Cuckston, Roy S., Leeds
 Currie, Norman, Newcastle-on-Tyne
 Donald, Drusilla W., Glasgow
 Donne, Irwin, Leeds
 Drummond, George D., Falkirk
 Dyer, Christian A., Glasgow
 Elsworth, Anne, Blackpool
 Etchells, William, Colwyn Bay
 Flockhart, Laurence N. A., Glasgow
 Gadekar, P. M., Sunderland
 Gardner, Paul M. S., Stafford
 Gill, Ronald C., Douglas
 Hamilton, Jean S., Larkhall
 Haworth, Elizabeth M., Acomb
 Heys, Marjorie, Rochdale
 Inglis, Anne C., Coatbridge
 Jackson, Maurice W., Southport
 Johnson, Paul D., Halifax
 Kenmare, William G., Whitehaven
 Killeen, Sheila P., Baildon
 Lee, Tindale B., East Boldon
 Lockwood, Maisie, Leeds
 Loneran, Kathleen M., Glasgow
 Lunt, James K., Winsford
 McFarland, Zena L., Lenzie
 McFeat, Alexander J. F., Giffnock
 McLaughlin, William T., Edinburgh
 Manners, David J., Barnsley
 Millar, Anne Y., Forfar
 Miller, Helen M., Glasgow
 Mitchell, Leslie A., Leeds
 Mitchell, Rita, Halifax
 Naylor, Joy, Hartlepool
 Neil, Patricia, Seaton Delavel
 Nicholson, Peter D., Wigan
 Pomfret, Joyce E., Halifax
 Price, Maii, Old Colwyn
 Raeside, Kenneth G., East Boldon
 Redhead, David T., Hull
 Rigg, Ian P., Ossett
 Shawin, Leonard, Leeds
 Watson, John B., Strathaven
 West, Henry R., Bolton
 Whitehead, Charles R., Hull
 Wilkinson, Gerald R., Hebden Bridge
 Wilkinson, Peter, Hartlepool
 Woolfson, Sidney, Manchester
 Young, John M., Glasgow

COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

Monday, February 2

ISLE OF THANET BRANCH, PHARMACEUTICAL SOCIETY, Belle Vue Hotel, Cliftonville, at 8 p.m.
 Mr. H. E. Dale (head of the medical department, Boots, Ltd.), on "Anticoagulants."

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, Bell Hotel, Bromley, Kent, at 8 p.m.
 Dr. J. M. Rowson on "The Forthcoming British Pharmaceutical Conference in London."

Tuesday, February 3

READING BRANCH, PHARMACEUTICAL SOCIETY, biological laboratories, Reading School, at 7.45 p.m.
 Dr. Katharine H. Coward on "Pharmacology of Vitamins."

WALSALL BRANCH, PHARMACEUTICAL SOCIETY, dining hall, St. John's Hospital, Walsall, at 7.30 p.m.
 Film show and discussion on "Assistants."

Wednesday, February 4

BEDFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Dujon restaurant, High Street, Bedford, at 7.30 p.m.
 Film show.

JUNIOR BRANCH, MANCHESTER PHARMACEUTICAL ASSOCIATION, Café Royal, Peter Street, Manchester, at 6.30 for 7 p.m. Party and Gala Ball.

MANSFIELD BRANCH, PHARMACEUTICAL SOCIETY, Masonic Hall, Nottingham Road, Mansfield, at 7.30 for 8 p.m. Annual dinner and dance.

NORWICH BRANCH, PHARMACEUTICAL SOCIETY, Assembly House, Theatre Street, Norwich, at 7.15 for 7.45 p.m.
 Film show by courtesy of Burroughs Wellcome & Co.: "Insulin" and "Foxgloves in Medicine."

SOMERSET BRANCHES, PHARMACEUTICAL SOCIETY AND NATIONAL PHARMACEUTICAL UNION, Castle Hotel, Taunton, at 7.45 p.m.
 Meeting to discuss "Technical Assistants" and "Revised Draft Code" speakers, Messrs. W. H. Cooper (head of the Bristol College of Pharmacy) and H. Holmes (a member of the N.P.U. Executive)

Thursday, February 5

DURHAM COUNTY BRANCH, PHARMACEUTICAL SOCIETY, County Hotel, Durham City, at 7.30 p.m.
 Film show by courtesy of Evans Medical Supplies, Ltd.

HARROGATE BRANCH, PHARMACEUTICAL SOCIETY, Fuller's café, Parliament Street, Harrogate, at 7.30 p.m.
 Dr. E. W. Tapley (medical information department, Sharp & Dohme, Ltd.) on "Broad Spectrum Antibiotics."

HULL CHEMISTS' ASSOCIATION AND BRANCH, New York Ballroom, Hull, at 8 p.m.
 Buffet dance.

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, Cutlers' hall, Sheffield, at 7.30 for 8 p.m.
 Annual dinner and dance.

WEST HAM ASSOCIATION OF PHARMACISTS, visit to factory of May & Baker, Ltd., Dagenham.
 Meet at gate of factory grounds in Bell Lane, Dagenham, at 2.30 p.m.

Friday, February 6

EXETER BRANCH, PHARMACEUTICAL SOCIETY, Assembly Rooms, South Street, Exeter, at 7.30 p.m.
 Show of sound and colour films.

MERSEYSIDE BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS' Y.W.C.A., room, 18 Slater Street, Liverpool, at 7 for 7.30 p.m.
 Annual meeting.

SOUTH-WEST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, Court room, Lambeth Town Hall, Brixton, London, S.W.2, at 7.45 p.m.
 Dr. B. A. Young (a member of the Society's Council) on "The Treatment of High Blood Pressure."

BRISTOL BRANCH, PHARMACEUTICAL SOCIETY, is holding its February meeting at the School of Technology, Bristol, and not as previously notified to members by circular.

SCHOOL OF PHARMACY, LEICESTER COLLEGE OF TECHNOLOGY AND COMMERCE, is holding its annual reunion dinner and dance in Leicester on February 27 (tickets, 17s. 6d., from the College).

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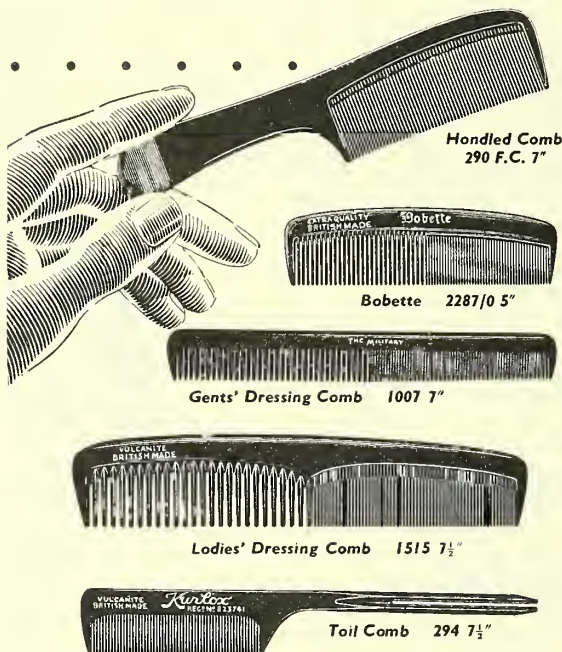
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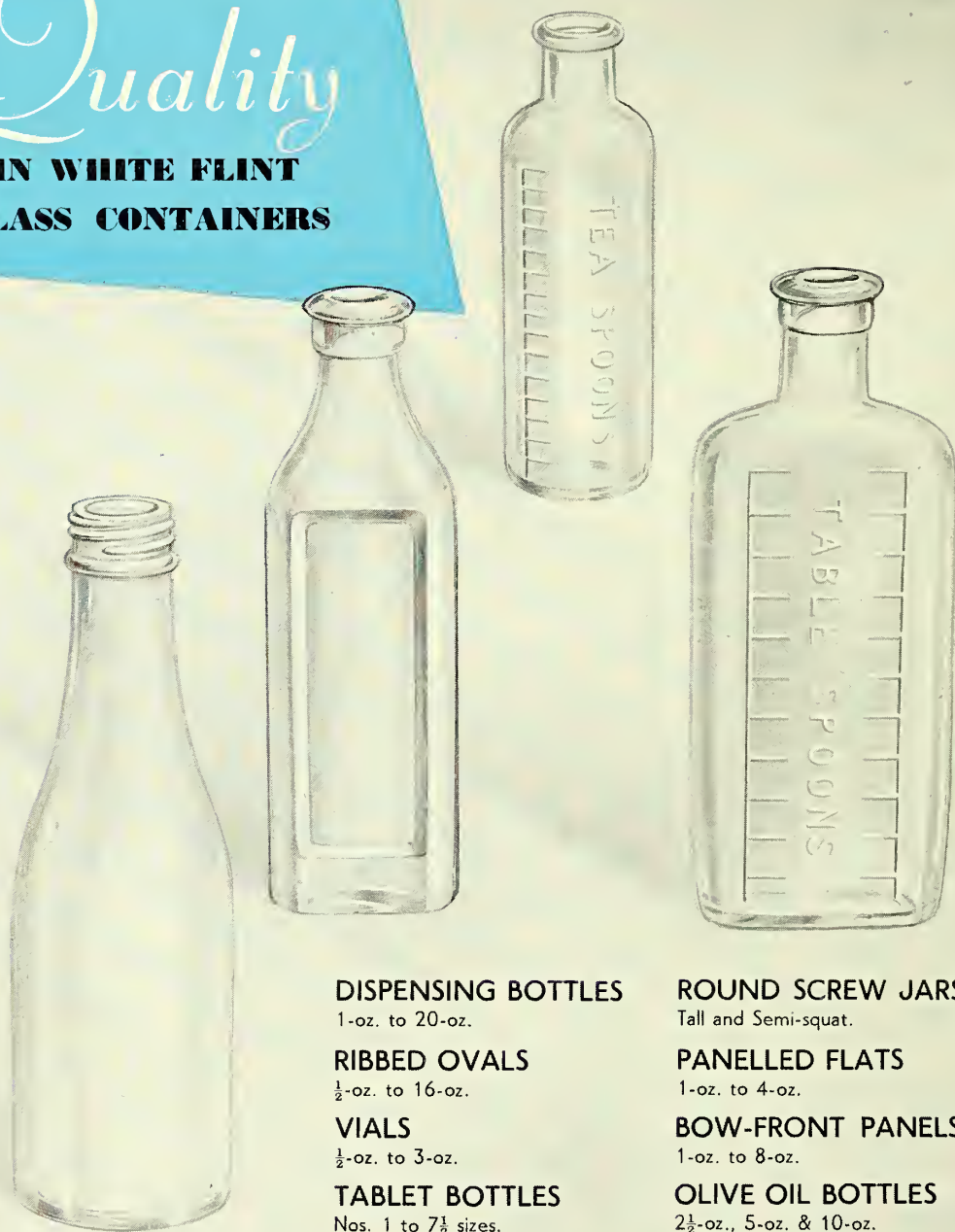


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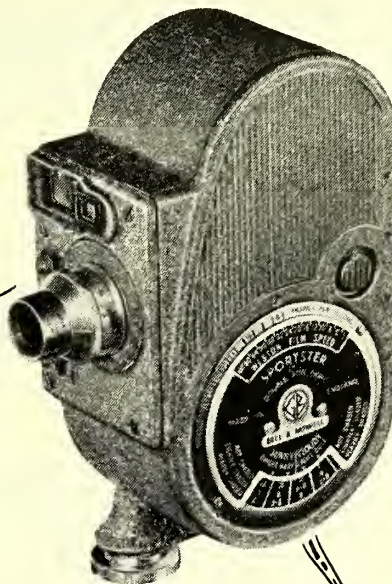
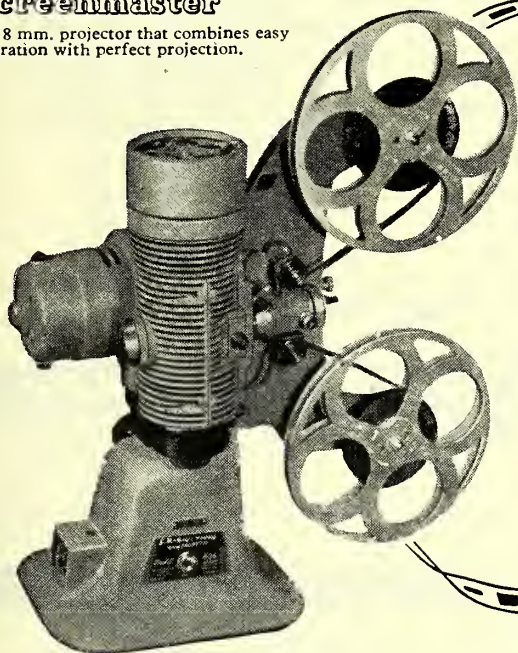
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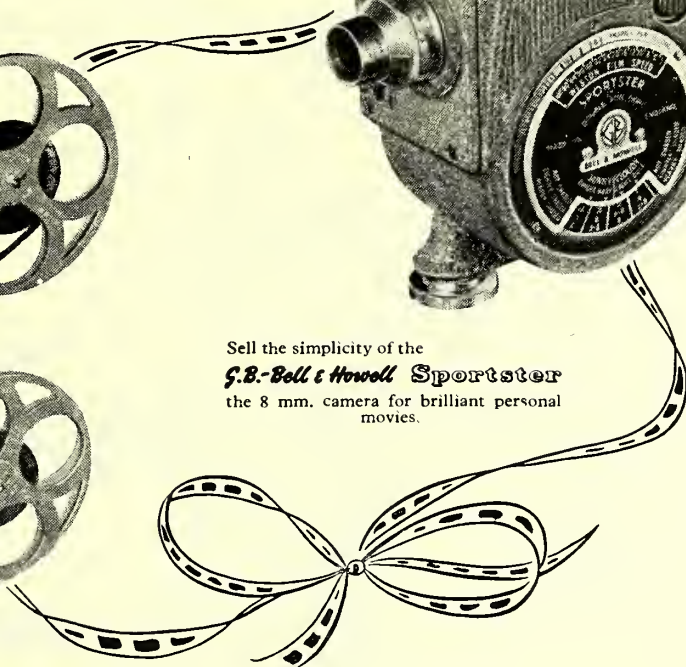
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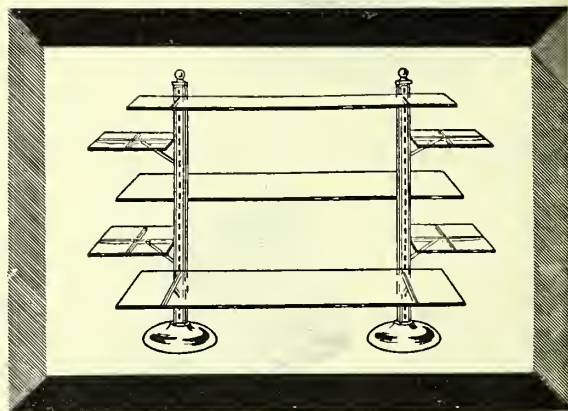
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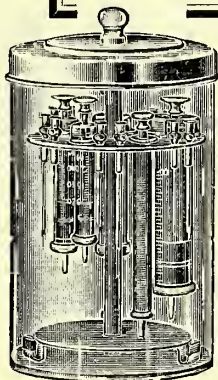
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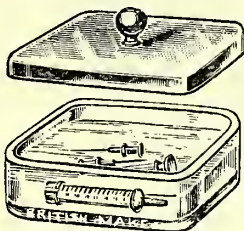
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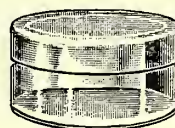
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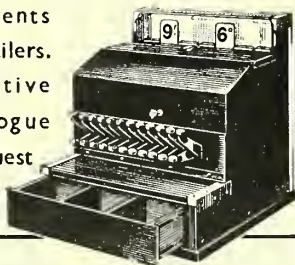
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OVER 5 MILLION WOMEN WILL SEE
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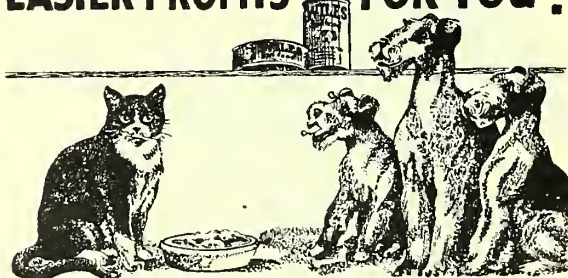
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Pet owners in your district are waking up to the fact that WILES Dog and Cat Foods keep their pets fitter by supplying them with their natural food—plus added vitamins. They're finding, too, that feeding is easier, more economical, from the WILES Tin. No wonder so many retailers are doing well from WILES! Get WILES Dog and Cat Foods on your shelves now—they'll prove your fastest-selling line!

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★ Goes on Easily

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Sticks to itself—but not to the skin

Packed in forceful cartons and easy-selling display outers. Backed by extensive advertising. Free samples available for counter distribution.

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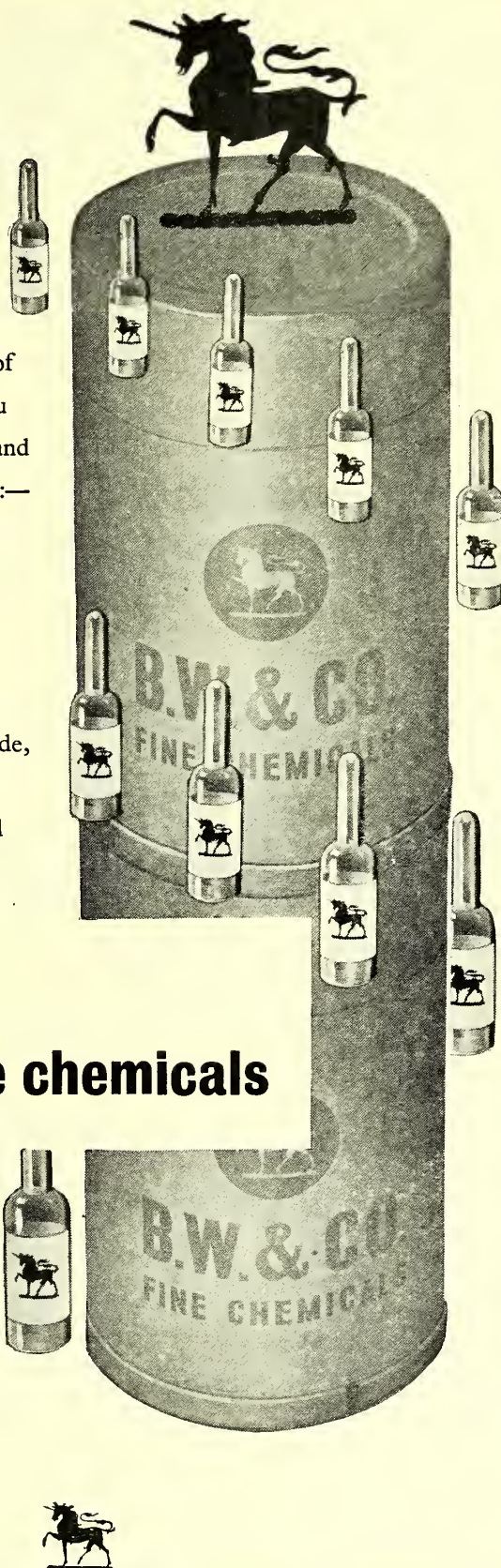
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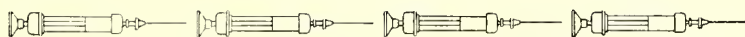
PENTANOL-2 A primary intermediate for the manufacture of thiopentone and other barbiturates

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13 for every dozen on orders of 3 dozen and over; attractive display stands supplied.

Retail price 1/11 per tin. Trade 11/6 per dozen.

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*exciting perfume
 richer creamier lather
 Coronation wrapper*



Here is proof that glamour need not mean extravagance—a perfumed, super-fatted beauty soap that costs no more than an ordinary toilet soap. New Araby is the name and 7d. is the price (Bath size 1/3). Can you doubt that New Araby means business—big business for you?

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Stock up NOW with New Araby in its distinctive new Coronation wrapper. The terms are generous. Write for full particulars to: J. Bibby & Sons Ltd., King Edward Street, Liverpool, 3.

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**1 doz. charged as 11 only
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All dentists are being told of the remarkable qualities of PER-DE-CO and your display will remind the customer of the dentists' recommendation.

Adequate stocks of the small size still available in the usual tin.

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GENTIAN ROOT GALANGAL ROOT RHUBARB ROOT

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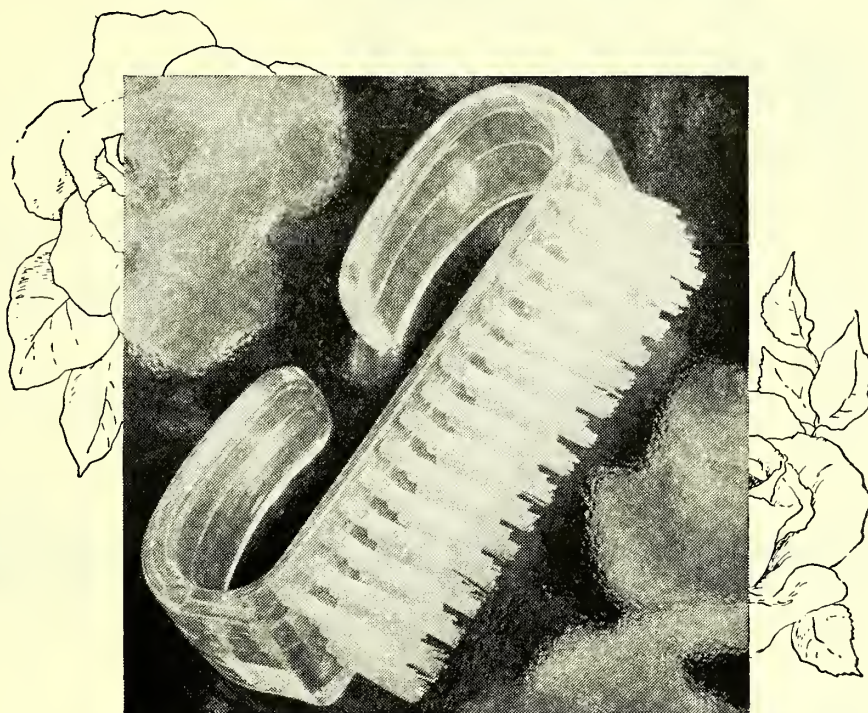
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Grippy is the only nailbrush ever advertised substantially and consistently on a national scale. Grippy is beautifully packed and regularly supported by first-class displays. Grippy gives your customer more brush for her money. At the same time, Grippy also gives you a bigger cash margin.

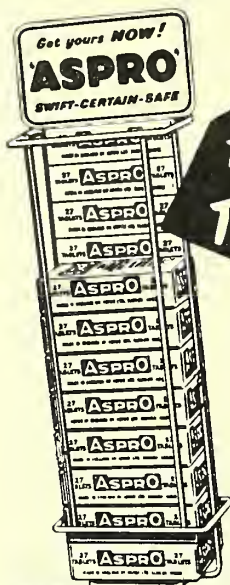
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you'll find it an easy-selling, profitable line!

GRIPPY

a nailbrush with character

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Some displays are *PASSIVE!*



**HERE'S ONE
THAT'S ACTIVE!**

Are you using the new handy - to - use 'ASPRO' Silent Salesman? If not, our representative will be pleased to fix one for you when he next calls. It is an ACTIVE display in the sense that it is not a mere reminder but actually creates sales. Placed prominently at eye level it catches the attention of every customer.



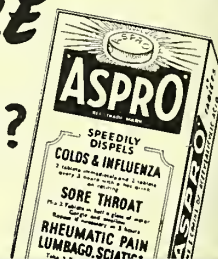
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Have you noticed the NEW STYLE

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PATA

Over 6 million

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43 years of service
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The BROOKS Appliance Company Ltd. soon altered this state of affairs with their comfortable, safe, made-to-measure Appliances. Today, the company is the largest in its field and makes a very

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Appliances supplied under
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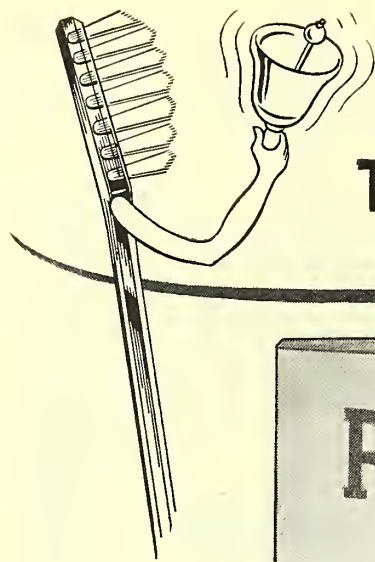
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stocks of Oteg
are adequate
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demand national
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March and April
will create



EGGS OFF RATION this Spring will provide yet another stimulus to Oteg Sales. Show and sell Oteg—the dry-sealing egg preservative (simply dip, dry and store in any box).

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Increased demand for
Tek Toothbrushes will result from
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The
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Tek
advertising
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8,000,000
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Tek
now better
than
EVER

It's the
'anchored tuft' that does it
Tek, the first of the short head toothbrushes,
leads the way once again! The new reinforced
head together with the Tek anchor mean
that the tufts of Tek are locked into the head
— yes, they're fixed in firm and fast! This is
the secret of a good toothbrush. This is the
secret of Tek — and why Tek is the best
toothbrush money can buy!

Tek bristle
Bristle 2/6 also Nylon 1/9. - TEK Junior for children 1/6.
A Johnson & Johnson PRODUCT.

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Applicants should have had practical experience in all branches of Power Station chemistry. Preference will be given to candidates possessing Higher National Certificate in Chemistry or equivalent qualifications.

Salary for the above appointment will be within Class G, Grade 9 (£641-£667 per annum) of the N.J.B. Agreement.

Closing date for this appointment, 20th February, 1953.
The above post will be pensionable within the provisions of the British Electricity Authority and Area Boards Superannuation Scheme. Applications should be submitted on the official form which may be obtained from the Divisional Establishments Officer, British Electricity Authority, Barker Gate, Nottingham, and should be returned not later than the date stated. Please quote Vacancy number.

L. F. JEFFREY,
Divisional Controller.
C 5001

HACKNEY HOSPITAL, E.9

LOCUM PHARMACIST (qualified) wanted immediately. Write Group Secretary. C 144

KINGSTON HOSPITAL, WOLVERTON AVENUE, KINGSTON-UPON-THAMES

SENIOR PHARMACIST

Applications are invited for the appointment of Senior Pharmacist at the above hospital to supervise the production of sterile solutions and other preparations. Salary on the scale £525 x £25-£625 plus London Weighting. Conditions of Service in accordance with the Recommendations of the Pharmaceutical Whitley Council. The appointment will be vacant on the 2nd March, 1953, and applications, together with the names of two referees, should be sent as soon as possible to the Physician Superintendent. C 9949

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Applications invited for post of Pharmacist at the above hospital. Hospital experience not essential. Salary and Service conditions according to Pharmaceutical Whitley Council. Written applications with full details and copies of two recent testimonials to Secretary. C 9985

HILL END HOSPITAL, ST. ALBANS, HERTS.

20 miles from London on good "bus routes. Assistant Pharmacist (male or female) required immediately. Salary and conditions of service in accordance with J.N.C. Scale (Hospital Staffs). Apply, stating age and full particulars of experience to Medical Superintendent. C 9980

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LOCUM PHARMACIST required for relief duties at the City General Hospital, 15 guineas per week.

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W. STANSFIELD,
Secretary.
C 5002

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Salary £450 (at age 23) x £25 p.a. to £575 p.a. plus London Weighting of £20 p.a. under age 26 and £30 p.a. age 26 and over. An additional £25 p.a. will be paid to candidates possessing B Pharm., Ph.C., etc.

Applications, stating age, experience and references, should be addressed to the Group Chief Pharmacist, Royal Free Hospital, Gray's Inn Road, W.C.1. C 9959

TOOTING BEC HOSPITAL, LONDON, S.W.17

Applications are invited for the appointment of PHARMACIST (whole or part-time). National salary and conditions of service. Applications, stating age, qualifications and experience, together with names of two referees, to be sent to Physician Superintendent as soon as possible. C 9992

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(CATEGORY V)

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Applications are invited for the position of SENIOR PHARMACIST with duties mainly at the Westminster Branch in High Holborn, W.C.1. Salary in accordance with the Whitley Scale (£525 x £25 x £625), together with London Weighting and an additional £25 for a higher qualification. Applications, accompanied by copies of testimonials, to be sent to the CHIEF PHARMACIST at City Rd. C 9993

UNITED MANCHESTER HOSPITALS PHARMACEUTICAL SERVICE

SENIOR PHARMACIST

Applications are invited for a post of SENIOR PHARMACIST in the pharmaceutical service of the Manchester Teaching Group of Hospitals.

Salary and conditions are in accordance with the Pharmaceutical Whitley Council decisions. Forms on which application should be made are obtainable from the Superintendent Pharmacist, Manchester Royal Infirmary, Manchester, 13. C 9982

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8/6 for 36 words (min.) then 3d. per word.
Box 2/-

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

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ASCOTTS PHARMACIES invite applications from Pharmacists wishing to take up appointments as managers in London and suburbs. Good salaries and commission, pension scheme. Living accommodation if required. Applications to Ascotts Pharmacies, Ltd., Wembley. C 3073

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NORTH-LONDON SUBURB. Pharmacist required to manage recently established branch on new housing estate. Shop and dispensary beautifully fitted. Plenty of opportunity for "go-ahead" man to develop business on sound lines. Generous salary, commission and rota duty payments, superannuation benefits, etc. Apply to Superintendent Chemist, Grange Rd., Leyton, E.10. C 3146

QUALIFIED MANAGER required for branch business. Good salary and modern accommodation. Please give full particulars when replying. Twenty miles from London. Box C 3139.

UNQUALIFIED ASSISTANT as window dresser and to assist at counter. Box C 3055.

UNQUALIFIED ASSEMBLER, either sex, required for assembly of B.P., B.P.C., and N.F. chemists' orders. Some extemporaneous dispensing and small-scale manufacturing. Good scope. Apply to Biorex Laboratories, Ltd., 51 Exmouth St., E.C.1. Phone: Terminus 1431. C 3129

UNQUALIFIED ASSISTANT, lady preferred but either sex considered, dispensing and counter, required for E.C.1 and N.16 pharmacies. Apply, with full particulars, to Kendale Dispensing Chemists, 51 Exmouth St., E.C.1. Phone: Terminus 1431. C 3136

UNQUALIFIED LADY dispenser required, able to assist at counter. Salary and commission. Give previous experience and salary required. Watkins, Chemist, 3 Stile Hall Parade, Chiswick. C 3075

UNQUALIFIED FEMALE assistant, for counter and dispensing duties, wanted by end of March. State age, experience and salary expected, by letter, to W. J. Boyes, Ltd., 61 Balham Hill, S.W.12. C 3088

UNQUALIFIED MALE ASSISTANT with counter experience required for branches in West End and North-west London suburbs. Write, John Harley, Ltd., 153 Regency St., S.W.1. C 3110

RETAIL (OVERSEAS)

PROGRESSIVE firm in healthy British colony requires immediately alert, single, young qualified assistant (M.P.S.). Knowledge of optics an advantage. Post offers excellent opportunities for advancement. Salary for first term of service (4 years) including cost of living allowance £110 (approx.) per month rising by annual increments to £119 (approx.) per month. Passage paid out and home. Annual local leave and six months' home leave on full basic pay after tour of four years. For further particulars apply Messrs. Ayrton Saunders & Co., Ltd., 34 Hanover Street, Liverpool, 1. Preliminary interview can be arranged in Liverpool or Edinburgh. C 9999

WHOLESALE

A LADY surgical fitter required by old-established London firm situated West End. Good salary and permanent position. Knowledge of trusses, belts and hosiery essential. Write Box C 143.

ALLEN & HANBURYS, LTD., require young male qualified pharmacist seeking wholesale experience as technical assistant to manager of drugs department. Five-day week. Canteen. Sports facilities. Apply, in writing, to Personnel Officer, Allen & Hanburys, Ltd., Bethnal Green, E.2. C 9983

BOOTS PURE DRUG CO., LTD., invite applications from male and female pharmacists for positions in their pharmaceutical manufacturing laboratories at Nottingham. Preference will be given to applicants under 30 years of age and commencing salaries will be according to age and experience. Positions are permanent and pensionable and offer good prospects. Applications to Personnel Manager, Station Street, Nottingham. C 9954

DEVELOPMENT PHARMACIST

Pharmacist, preferably with specialised experience in tablet making, required for the Development Department of Evans Pharmaceutical Research and Development Unit. Salary and pension scheme in operation. Post offers good opportunities to applicants with initiative and enthusiasm. Five-day week and staff pension scheme in operation. Applications in writing stating age, full details of education, experience and qualifications to: Pharmaceutical Development Director, Evans Medical Supplies, Limited, Speke, Liverpool, 19. C 9988

DALMAS, LTD., Leicester, are considering the appointment of an assistant works manager. Applications, in confidence, should be addressed to the Directors, Junior St., Leicester, and should contain full particulars of age, experience and present salary. C 9981

EXPERIENCED TABLET MAKER required immediately to take charge of modern department. Plain and coated work, excellent working conditions. Five-day week. Permanent post with good prospects. Full details of experience, age, etc., to Cupal, Ltd., Manufacturing Chemists, King St., Blackburn. C 3143

JUNIOR ASSISTANT, either sex, required for analytical laboratory. Matriculation essential. Experience an advantage. Five-day week. Write stating age, experience and salary required to Personnel Department, The Crookes Laboratories, Limited, Gorst Road, Park Royal, N.W.10. C 9987

PHARMACEUTICAL CHEMIST and/or A.R.I.C. required with analytical, pharmaceutical and preferably manufacturing experience. Write (in confidence) to Managing Director, Damancy & Co., Ltd., Ware, Herts. C 3114

PRODUCTION MANAGER requires assistant. Preferably about 30 years, qualified, with experience in pharmaceutical and cosmetic manufacture. 5-day week. Canteen. Non-contributory pension scheme. Applications marked Confidential to Production Manager, William R. Warner & Co., Ltd., Power Rd., W.4. C 9990

REPRESENTATIVE, under 35, preferably qualified required by first-class firm for key position in Birmingham and Coventry. Solid existing connection with chemists and doctors. Salary £600 plus commission which should give total £1,000 within three years. Full expenses paid and car provided. Box C 3132.

REPRESENTATIVE, resident in Nottingham area required by a well-known cosmetic and perfumery house to cover North Midlands, Lincs, etc. Must have a good connection with chemists, stores, wholesalers, etc. This is a superannuated appointment carrying good salary, commission, etc., car supplied. Apply, by letter, giving full particulars as to age, present and past employers, territory covered, etc., to Box No. M. 585, c/o Street's, 110 Old Broad Street, London, E.C.2. C 9984

REPRESENTATIVE required for south coast by well-known firm of manufacturing chemists. Excellent salary and commission for man with "live" accounts. Write, giving age, experience and present remuneration to Box C 9935.

SCOTLAND. First-class representative or sole agent required by progressive manufacturers of medicated confectionery and well-known proprietaries. Although having several hundred accounts on the territory re-establishment is necessary owing to non-representation. Applicants must be car owners and able to provide proof of ability and integrity. Please submit fullest information in confidence. Box C 3145.

THE CROOKES LABORATORIES require a representative to cover Sussex, Hampshire, Channel Islands and Isle of Wight. Duties will comprise professional interviews with doctors and hospitals and commercial calls on the trade. Previous experience is not essential and preference will be shown for an individual's desire to progress. The position is superannuated and application supplying full details should be made to General Sales Manager, The Crookes Laboratories, Ltd., Gorst Road, Park Royal, London, N.W.10. C 9976

TRAVELLER offered salary, commission, expenses and opportunity of substantial income. Must have established connection and experience in selling to chemists, druggists, generalists, dressings, plasters, proprietaries and chemists' sundries. Must be car owner. Some Home Counties and London territories vacant. Apply to Biorex Laboratories Ltd., 51 Exmouth St., E.C.1. C 3128

WHOLESALE (OVERSEAS)

BEECHAM GROUP LIMITED are recruiting production executives with pharmaceutical qualifications (preferably B.Pharm. degree or Ph.C. diploma) for service in their overseas factories in the Eastern and Western Hemispheres. Prior to taking up an overseas appointment, arrangements will be made for successful applicants to acquire product and process experience in home factories of the Group. The posts are pensionable and offer excellent opportunities for advancement. Reply, in the first instance, with full particulars to Beecham Group, Limited, Technical Division, Amami Buildings, North Circular Road, West Twyford, N.W.10. C 9933

CHIEF CHEMIST required by Lennon, Ltd., at their Laboratory, Port Elizabeth, South Africa. Applicants should be qualified at least B.Pharm. or Ph.C., with sufficient experience in the manufacture and control of pharmaceutical products to accept full technical responsibility. Conversance with modern developments in pharmaceutical practice essential, with original ideas for the initiation, formulation and development of new products and the preparation of medical literature. Passage paid. Applications, giving full details of qualifications, experience, age and marital state, should be addressed to Messrs. Campbell Booker Carter, Ltd. ("L" Dept.), Ocean House, 10-12 Little Trinity Lane, London, E.C.4. C 3137

PARKE, DAVIS & CO., LTD., have a vacancy for a young, single pharmacist as representative, based on Nairobi, to call upon doctors, hospitals and chemists in British East Africa. Appointment is pensionable, offers substantial scope and will be remunerated by salary, bonus and expenses. Comprehensive training will be given in this country, and those interested should write for an application form to the Foreign Sales Manager, Parke, Davis & Co., Ltd., Staines Rd., Hounslow, Middlesex. C 5005

SITUATIONS WANTED

3/- for 18 words (min.) then 2d. per word.
Box 1/-

RETAIL (HOME)

UNQUALIFIED (married) desires progressive post wholesale or retail. Energetic, first-class experience. Brighton or near. Available March 2 onwards. Box C 3109

WANTED TO PURCHASE**PHARMACEUTICAL MANUFACTURING BUSINESS**

Producing Proprietary Articles

LARGE CAPITAL AVAILABLE

Write in confidence to: **REGINALD TERRELL**, Managing Director

BUSINESS BROKERS LIMITED, 46 St. James's Place, London, S.W.1

(REGent 4720 and 5418) C9759

**Certificate in
OPTICAL DISPENSING**

*Details of a course of study for this examination
are now available*

Write to me :—

C. A. SCURR

B.Sc., D.Opt., F.S.M.C., F.B.O.A., M.P.S.

50 HIGH STREET, BARNET, LONDON, N

Situations Wanted—Continued

UNQUALIFIED, experienced dispenser, counter, photo, S.E. London. (56.) Willmer, 42 Wellington Gardens, Charlton, S.E.7. C 3100

WHOLESALE

ENGLISHMAN, bachelor, 50 years old, at present in India representing first-class British manufacturers of drugs, chemicals, extracts, packed pharmaceuticals, etc., seeks executive position anywhere. Travelled extensively throughout India, Pakistan and Burma. Experience includes sales, import and export, stores, buying, office and staff management. Excellent trade and bank references. Available at short notice. Write Box E7254, Whites, 72-78 Fleet St., London, E.C.4. C 9996

PHARMACIST, aged 40, with ten years' representative experience, would welcome inquiries for chemist or medical representation in the Hants, Dorset, Wilts area. Salary and expenses preferred but would consider a favourable commission basis. Box C 3141.

LADY (36), ex-hospital dispenser, requires post representative calling on hospitals S. England to combine with selling looms to occupational therapy departments. Box C 3135.

PARTNERSHIP OR DIRECTORSHIP in established wholesale business. Capital available. Well-known representative Kent to Cornwall; chemists, doctors, veterinary surgeons, hospitals. Drugs, surgical instruments. Proved sales ability, good organiser. Well up ethical. Would continue travel and/or act sales manager. Position without directorship and investment not entertained. Box C 3149.

REPRESENTATIVE, worthy of his hire, requires post. Area Birmingham, 50 miles around. Largest connections chemists. Salary, commission and expenses only entertained. Box C 3142.

WHOLESALE PERFUMERY, COSMETICS. Complete knowledge buying, sales, general management. 43, 20 years last firm, keen, efficient, desires responsible position with prospects. Box C 3144.

**STANDARD
SACCHARIN
TABLETS**

In packets of 100 and 200

NOW THE CHEAPEST PRICE FOR
SMALL AND LARGE QUANTITIES
Name and Address printed at no extra charge

Samples and Quotations from:—

TELL PRODUCTS LTD
MANUFACTURING CHEMISTS

Wellbeck Wrks, 93 Cobbold Rd. London N.W.10.

Telephone: Willesden 6873

AGENCIES

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

AGENTS calling on retailers required for part London and some counties for greatest selling shampoo heavily nationally advertised. Good commission only. State areas, lines handled and references. Apply to Warner, Harvey & Co., Ltd., 28b Albemarle St., London, W.1. C 3101

AGENCIES WANTED

8/6 for 36 words (min.) then 3d. per word.
Box 2/-

AGENT with first-class connections with chemists and hospitals in Northern Ireland and the Isle of Man seeks additional lines. Box C 3122.

ELI LILLY AND COMPANY LTD.

Announce the following price reductions
for 'DURACILLIN' preparations as from
Monday, February 2nd, 1953

'DURACILLIN A.S.' 10 c.c. ampoule

Old Price

14/-

New Price

12/1½

'DURACILLIN A.S.' 1 c.c. ampoule

Old Price

3/6

New Price

3/-

The above are retail prices exempt from Purchase Tax

Applications from **RETAIL PHARMACISTS** for credit on stocks held at closing time on January 31st should quote **BATCH Nos.**, and should be made within 14 days to

ELI LILLY & CO. LTD., BASINGSTOKE, HANTS.

Agencies Wanted—Continued

SALES REPRESENTATIVE with very well-established connection in Lancashire and Cheshire amongst good-class chemists and stores, wants one or two agencies. Must be reputable and first-class products. Particulars to Box C 3121.

BUSINESS OPPORTUNITIES

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

LEADING GERMAN chemical works seeks contact with important pharmaceutical manufacturer interested in producing and marketing new pharmaceutical preparation in the United Kingdom. Write for details to Box 6198, Frost-Smith Advgs., 64 Finsbury Pavement, London, E.C.2. C 9994

WELL-KNOWN manufacturing chemists, perfumers, and packers to the trade, offer facilities for packing all types of pharmaceutical products, toilet preparations, etc., etc. All enquiries treated with strict confidence. Any type of packing or manufacturing undertaken. F. M. Langford, Ltd., 40-41 Welclose Square, London, E.1. Telephone: Royal 4743 or 4744. C 3058

WANTED

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

COWHAGE (Mucuna B.P.C. 1934). State price and quantity available. Anderton. 254 Fyde Rd., Preston. C 3138

GLYCERINE B.P. and pale straw. We buy any quantity for spot cash. Please send offers with full particulars, packages, etc., to Box C 3140.

WANTED: Castor oil foots, sodium hydrosulphite 88/92% in 1-cwt. drums with overkegs. Formaldehyde 40% by volume in 45-gallon drums, ammonium chloride in sound 1½-cwt. hessian bags, pale straw glycerine. Apply Box C 9989.

WANTED. Surplus or redundant merchandise, clearance goods of any description or discontinued lines. Cash immediately, no delay. Our representative will be pleased to call or, alternatively, please send samples with particulars, quantity and price. Lawrence Edwards & Co., 6-7 Wellington Close, Ledbury Rd., London, W.11. Telephone: Bayswater 4020. C 140

WANTED: 8-10 tons paradichlorobenzene, fine crystals; technical urea; pale straw and B.P. glycerines; dirty white spirit. Box C 9998.

MISCELLANEOUS SALES

17/6 for 36 words (min.) then 4d. per word.
Box 2/-

60 GROSS original Kent Nylon Tooth-brushes, polished bristles, each brush fully wrapped in cellophane, at 72s. per gross, to clear. Rapmark Products, Ltd., 89 Packington Street, London, N.1. Can. 4611. C 3125

1-OZ. BAKELITE POTS with black enamel caps at 12/6 per gross, carriage paid. Very useful for N.H.S. work, creams, ointments, tablets, etc. Bryten Products, Ltd., Nettlefold Place, London, S.E.27. C 3066

CLEARANCE PARCEL of brand new 1 and 2 oz. ointment tins, lids printed, lanoline, zinc, horacic, hasilicon, blue, etc., also some unprinted gilt lacquered, packed 6 doz. cartons. Approx. 300 gross at 5s. per gross. Samples sent. R. M. & Co., Ltd., 52-56 Ormside St., S.E.15, New Cross 5222. C 3123

FOR DISPOSAL. Chemists' fittings, fixtures and appurtenances. Ideal for young chemist starting own business. Apply Attwood Bros., Ltd., 110 Chatsworth Rd., Clapton, London, E.5. Phone: Amherst 4395. C 3086

MODERN CHEMIST SHOP fittings, drug ranges, wallcases with frameless sliding doors, display counters and showcases; all styles of window fittings and display stands. D. Matthews & Son, Ltd., Complete Chemist Shop Fitters and Shop Front Builders, 14-16 Manchester St., Liverpool. C 141

SANTONIN CRYSALS. One kilo original, £85, or near offer, 10 cwt. glycerine, B.P., 2s. 9d. lb. About 300 lb. caraway oil, Exot., 18s. lb., ex London warehouse. Box C 3127.

SACCHARIN TABLETS. Government standard strength—packets of 100. 1-gross lots, 49s. gross 5-gross lots 48s. 6d. gross. Special prices for larger quantities. Registered post by return. Agnew & Simpson, Ltd., 81-87 Oxford St., Glasgow, C.5. C 9991

MISCELLANEOUS

PHOTOGRAPHY. Are you introducing new lines, installing new plant or processes? Have it photographed in monochrome or colour for publicity, technical journals, etc., by experts. Bignell Chemicals, Ltd., 51 King's Court South, S.W.3. Flaxman 9277. C 145

TENDERS

DARTFORD HOSPITAL MANAGEMENT COMMITTEE
Tenders for the supply of Surgical Dressings, Drugs, Chemicals, Pharmaceutical Preparations and Sundries.

Tenders are invited for the supply of:—
(a) Drugs, Chemicals and Pharmaceutical Preparations;
(b) Surgical Dressings;
(c) Medical and Surgical Sundries;
to the undermentioned hospitals in the Group for the period 1st April, 1953, to the 31st March, 1954:—
The River Hospitals, Joyce Green;
The West Hill Hospital and
The Southern Hospital, Dartford (the latter dispensing for The Bow Arrow Hospital, Dartford;
The Livingstone Hospital, Dartford; and
The Riscely Maternity Hospital, Dartford).

Forms of tender can be obtained from the Supplies Officer, The Bow Arrow Hospital, Dartford, and must be delivered to the office of the undersigned, as directed on the form, by not later than 10 a.m. on the 14th February, 1953.

E. J. M. DURRANT,
Group Secretary.

The Bow Arrow Hospital
Dartford, Kent.
19th January, 1953.

C 9986

TRADE MARKS

THE TRADE MARK No. 482078 consisting of the word "SEROCALCIN" and registered in respect of chemical substances prepared for use in medicine and pharmacy was assigned on 22nd December, 1952, by Harwoods Laboratories, Ltd., of 69 Pall Mall, London, S.W.1, to Tasch (London), Ltd., of 159 Finchley Rd., London, N.W.3, without the goodwill of the business in which it was then in use. C 9997

THE TRADE MARK No. 253787 consisting of the word "SANCOS" and registered in respect of medicines for human use was assigned on 6th January, 1953, by John Harley, Limited, of 153 Regency Street, London, S.W.1, to Genatosan, Limited, of 12 Derby Road, Loughborough, Leicestershire, without the goodwill of the business in which it was then in use. C 3126

The C and D WEEKLY LIST OF PRICE CHANGES

A = Advanced; R = Reduced; I.R.P. = Inclusive Retail Price; * = Tax 33½ per cent.

PARKE, DAVIS & CO., LTD. (from February 2)
Folic acid tablets 5 mgm. Doz. I.R.P.
25 7 3 R
100 27 3 R

NEW PRODUCTS AND PACKS

THOMAS REID & SONS, LTD.
Pine and glycerin green soft soap, jar 12-oz. 14 6 1 6

TRUFOOD, LTD.
Trufood Spoonfoods tongue and vegetable puree 9½
WILLIAM R. WARNER & CO., LTD.
Agarol disp. pack, 80-oz. 19 6

GLAXO LABORATORIES, LTD. (from February 2)
Dionosil oily 20-c.c. 16 0

PROPORTIONAL INSTRUMENTS
A.W.C. Proportioner 55 0

A. L. SIMPKIN & CO., LTD.
Lemon-flavoured sore throat tablets* jars of 6 doz. rolls 24 0
each roll 7½

THOMPSON & CAPPER, LTD.
Q.A. quick-acting aspirin tablets pocket pack 7½

CHESEBROUGH MANUFACTURING CO., LTD.
Vaseline liquid shampoo in single-shampoo sachet 6

P.A.T.A. PROTECTED LIST**Part 1**

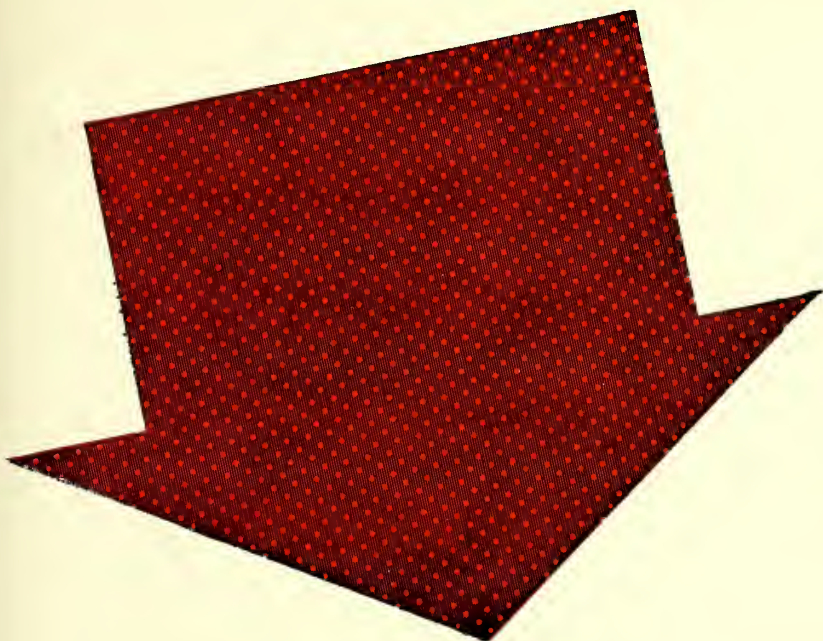
BENBOW'S DOG MIXTURE CO., LTD.
(from February 1)
Benbow's dog mixture* Doz. I.R.P.
2-oz. 18 6 2 6 A

Benbow's dog mixture, 4-oz. Doz. I.R.P.
1-pint 110 0 15 2½ A
Each
½-gall. 27 6 45 10 A
1-gall. 49 6 82 6 A
Capsules* Doz.
32 0 4 4½ A
108 0 16 6 A

BIOLOGICALS

Poison Class	Strength	Cost	Selling
		d. per	s. d.
Penicillin (crystalline)	8	1 0
Penicillin inject. oily, B.P.	10	1 3
Penicillin inject. c. procain (aqueous suspension)	17	2 1½
Penicillin c. procain	28	3 6
Penicillin c. procain	97	12 1½
Penicillin oral tab.	10	12 1½
Penicillin oral tab.	14	1 9
Streptomycin (CaCl ₂ complex) or sulphate	31	3 10½
Dihydrostreptomycin sulphas	42	5 3
	54	6 9
	320	40 0
	140	17 6
	320	40 0
	140	17 6

The above table summarises reductions in the prices of penicillin preparations that come into effect on February 2. For lack of space, brand names and special preparations cannot be shown. Applications from retail pharmacists for credit on stocks held at closing time on January 31 should be made within fourteen days, quoting the batch numbers, to the company concerned: Allen & Hanburys, Ltd., The British Drug Houses, Ltd., Burroughs Wellcome & Co., Evans Medical Supplies, Ltd., Imperial Chemical (Pharmaceuticals), Ltd., Pharmaceutical Specialities (May & Baker), Ltd., Eli Lilly & Co., Ltd., and Glaxo Laboratories, Ltd. Rebate claim forms have been posted to registered retail pharmacies by some companies.



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AMMONIUM BROMIDE · POTASSIUM BROMATE
ETC.

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Telegrams: Whiffen, Walgreen, London



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